CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, October 12, 1905.

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CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

The following Plans (P.), Specifications (S.), and Bidding Sheets (B. S.) may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

Bids close Sept.	Work.	Place.	On file.	See issue.
Oct.				
14	Filling & gr'd'g..	N. Orleans, La.	S.	9-28
•16	Water-works..	Rolla, Mo.	P. & S.	9-14
16	Sewer s't'm..	Cape Girardeau, Mo.	P. & S.	9-14
21	Artesian well..	New Orleans, La..	S.	9-28
•26	Dam, etc..	Belle Fourche, S. Dak.	P. & S.	9- 7
Nov.				
1	Generators..	Arizona	P. & S.	10-13
2	Water wheels..	Arizona	P. & S.	10-13
Dec.				
•5	Dam..	Billings, Mont.	P. & S.	9-14
•	Steel rolled beams..	New York..	S.	10-12
Jan.				
•2	Water system..	Manila	P. & S.	9-21
•12	Sewer system..	Manila	P. & S.	9-21
10	Lighting plant..	Fayetteville, N.C.	S.	10- 5

•Work advertised in Engineering News.

NOTE.—We are desirous of securing specifications and bidding sheets (and plans when not too bulky) of pending work for file in our New York office for the benefit of contractors or others who may be interested in the work. If more sets than one are sent us we shall be pleased to distribute these to contractors who ask for them. When the work is advertised in Engineering News a note that the plans are filed with us will be added to the advertisement without cost.

LIST OF CONTRACTS PENDING.

Bids close. Work. Place. See issue.

LIGHT, HEAT AND POWER PLANTS.

Oct. 14. Power plant, St. Mary's, Ind.........Oct. 12
Oct. 20. Engine, Grand Rapids, Mich.........Oct. 12
Advertised, Eng. News, Oct. 12.
Oct. 20. Generators, etc., Washington, D. C.....Oct. 12
Oct. 20. Snow removal, New York, N. Y.........Oct. 12
Nov. 1. Generators, etc., Los Angeles, Cal.......Sept. 14
Advertised, Eng. News, Sept. 14 to Nov. 2.
Nov. 1. Generators, Arizona ....Oct. 12
Nov. 2. Water wheels, Arizona ....Oct. 12
Nov. 2. Water wheels, etc., Los Angeles, Cal....Sept. 21
Advertised, Eng. News, Sept. 21 to Oct. 26.
Dec. 2. Water power, Porto Rico ....Aug. 17
Advertised, Eng. News, Aug. 17to Sept. 14.

BRIDGES.

Oct. 14. Bridge approach, Terre Haute, Ind......Oct. 12
Oct. 16. Bridge, Peoria, Ill.........Oct. 12
Oct. 16. Bridges, San Jose, Cal.........Oct. 5
Oct. 17. Steel bridge, Two Harbors, Minn.......Oct. 12
Oct. 18. Bridge, Chicago, Ill.........Oct. 12
Oct. 19. Bridge, Spokane, Wash.........Oct. 12
Oct. 19. Bridge, Newport, Ind.........Oct. 5
Oct. 21. Bridge, Dayton, O.........Oct. 5
Oct. 23. Bridges, Wichita, Kan.........Oct. 5
Oct. 24. Bridge, steel, Marion, O.........Oct. 5
Oct. 28. Bridge, Akron, O.........Oct. 12
Oct. 30. Bridge, Camden, N. J.........Sept. 21
Advertised, Eng. News, Sept. 21 and 28.
Nov. 6. Steel bridge, Huntsville, Ala.........Oct. 12
Nov. 6. Bridge, steel, San Bernardino, Cal.....Oct. 12
Nov. 6. Bridge, Memphis, Tenn.........Oct. 12
Nov. 8. Bridges, Denver, Colo.........Oct. 12
Advertised, Eng. News, Oct. 12 to Nov. 9.
Jan. 1. Steel bridge, Pensacola, Fla.........Sept. 28

BUILDINGS.

Oct. 13. Building, New London, Conn.........Sept. 21
Oct. 13. Window screens, etc., Ft. Meade, S. Dak.Sept. 28
Advertised, Eng. News, Sept. 28 and Oct. 5.
Oct. 14. Guard house repair, etc., Ft. Brady, Mich.Sept. 28
Advertised, Eng. News, Sept. 28 to Oct. 19.
Oct. 15. Buildings, Marietta, O.........Sept. 21
Oct. 16. Lighting fixtures, Ft. Monroe, Va.......Sept. 21
Advertised, Eng. News, Sept. 21 to Oct. 19.
Oct. 16. Court-house, Gretna, La.........Sept. 14
Oct. 17. Ice plant (Mfg. plants), Chilocco, Okla..Sept. 28
Oct. 18. Buildings, Harrisburg, Pa.........Oct. 5
Oct. 18. Hospital, Governor's Island, N. Y.......Oct. 5
Advertised, Eng. News, Oct. 5 and 12.
Oct. 18. Buildings, etc., Ft. Sam Houston, Tex...Sept. 28
Oct. 18. Buildings, Vancouver Barracks, Wash..Sept. 28
Oct. 19. Buildings, Tomah, Wis.........Sept. 28
Oct. 19. Elevator and lifts, Lincoln, Neb.........Sept. 28
Advertised, Eng. News, Sept. 28 and Oct. 5.
Oct. 19. Court-house plans, Peru, Ind.........Oct. 12
Oct. 24. Plumbing, Ft. Totten, N. Y.........Oct. 12
Advertised, Eng. News, Oct. 12 and 19.
Oct. 25. Auditorium, New Orleans, La.........Oct. 12
Oct. 25. Heating, etc., South Bend, Ind.........Oct. 12
Oct. 23. Jail cells, Oklahoma, Okla.........Oct. 5
Oct. 25. Heating, etc., Ft. Wayne, Ind.........Oct. 12
Oct. 26. School, Jersey City, N. J.........Oct. 12
Oct. 26. Roof and skylights, Washington, D. C...Sept. 28
Advertised, Eng. News, Sept. 28 to Oct. 26.
Oct. 27. Buildings, Green Bay, Wis.........Sept. 28
Oct. 27. Buildings, Ft. Leavenworth, Kan.........Oct. 12
Oct. 30. Hospital, Newark, N. J.........Oct. 12
Nov. 8. Electric light fixtures, Washington, D. C.Sept. 28
Advertised, Eng. News, Sept. 28 to Nov. 9.
Nov. 9. Court-house, Marion, Kan.........Oct. 12
Nov. 14. Post-office, Colorado Springs, Colo.......Sept. 21
Dec. 12. Capitol building, Bismarck, N. Dak.......Oct. 5

WATER SUPPLY AND IRRIGATION.

Oct. 12. Water-works, Lyons Falls, N. Y.........Sept. 28
Advertised, Eng. News, Sept. 28 and Oct. 5.
Oct. 12. Water-works, Pleasant Grove, Utah......Oct. 5
Oct. 13. Stand-pipe, Grand Rapids, Mich.........Oct. 5
Advertised, Eng. News, Oct. 5.
Oct. 13. Pipe laying, filter sand, etc, Cincinnati, O.Sept. 21
Oct. 14. Shafts and tunnel, Kansas City, Mo......Sept. 21
Advertised, Eng. News, Sept. 21 and 28.
Oct. 16. Water system, Rolla, Mo.........Sept. 14
Advertised Eng. News, Sept. 14 and 21.
Oct. 16. Water pipe, Los Angeles, Cal.........Oct. 5
Advertised, Eng. News, Oct. 5.
Oct. 16. Concrete conduit, Richmond, Va.........Oct. 12
Advertised, Eng. News, Oct. 12.
Oct. 16. Water-works, Greensboro, N. C.........Oct. 12
Oct. 16. Boiler, pump, etc., Floresville, Tex.....Oct. 12
Advertised, Eng. News, Sept. 14 and 21.
Oct. 17. Water mains, Waterbury, Conn.........Oct. 12
Oct. 17. Water-works, sewers, Sebastopol, Cal..Oct. 12
Oct. 18. Water-works, Madrid, Ia.........Oct. 12
Oct. 18. Water mains, New York, N. Y.........Oct. 12
Oct. 18. Tank, tower, etc., Perrysburg, O.........Oct. 5
Advertised, Eng. News, Oct. 5 and 12.
Oct. 18. Water-works, etc., Milledgeville, Ga.....Sept. 14
Oct. 18. Water mains, Boulder, Colo.........Sept. 21
Oct. 19. Tubular wells, Fort Ethan Allen, Vt......Oct. 5
Oct. 21. Artesian well, New Orleans, La.........Sept. 28
Oct. 23. Water-works, electric plant, India......Aug. 24
Oct. 23. Reservoir, mains, Orange, N. J.........Oct. 12
Advertised, Eng. News, Oct. 12.
Oct. 24. Water-works, Ciudad Juarez, Mexico...Sept. 14
Oct. 25. Pumps, New York, N. Y.........Oct. 12
Oct. 26. Dam, canals, etc., Belle Fourche, S. Dak.Sept. 7
Advertised, Eng. News, Sept. 7 to Nov. 2.
Oct. 28. Irrigation canals, Hood River, Ore.......Oct. 5
Oct. 30. Water-works, Bassett, Neb.........Oct. 12
Oct. 31. Test wells, Pensacola, Fla.........Oct. 12
Nov. 6. Conduit, Sec. 1, Toledo, O.........Oct. 12
Advertised, Eng. News, Oct. 12 and 19.
Nov. 6. Conduit, Sec. 2, Toledo, O.........Oct. 12
Advertised, Eng. News, Oct. 12 and 19.
Nov. 8. Irrigation canal, Denver, Colo.........Oct. 12
Advertised, Eng. News, Oct. 12 to Nov. 9.
Dec. 5. Yellowstone dam, Billings, Mont.........Sept. 14
Advertised, Eng. News, Sept. 14 to Oct. 26.
Jan. 2. Water-works, Philippines.........Sept. 21
Advertised, Eng. News.
No date. Tunnel, pipe line, Harrisburg, Pa.........Oct. 5
Advertised, Eng News, Oct. 5.

SEWERAGE.

Oct. 12. Sewage disposal plant, Reading, Pa......Oct. 5
Advertised, Eng. News, Oct. 5.
Oct. 12. Sewers, etc., Jackson, Mich.........Oct. 5
Oct. 12. Sewer, Youngstown, O.........Oct. 5
Oct. 12. Pipe sewer, Green Bay, Wis.........Oct. 5
Oct. 12. Storm sewer, Williamsport, Pa.........Oct. 5
Advertised, Eng. News, Oct. 5.
Oct. 12. Drain, Portchester, N. Y.........Oct. 5
Oct. 14. Sewers, water mains, Waynesville, N. C.Oct. 5
Oct. 16. Main outfall sewer, Moorhead, Minn.......Oct. 5
Oct. 16. Sewer system, Cape Girardeau, Mo.....Sept. 14
Advertised, Eng. News, Sept. 14 and 21.
Oct. 16. Sewers, Cape May, N. J.........Sept. 28
Advertised, Eng. News, Sept. 28 and Oct. 5.
Oct. 16. Concrete sewers, Richmond, Va.........Oct. 12
Oct. 16. Pipe sewer, Webb City, Mo.........Oct. 12
Oct. 16. Pipe sewer, Perth Amboy, N. J.........Oct. 12
Oct. 16. Sewer pipe, valves, etc., Wash., D. C...Oct. 12
Oct. 17. Pipe sewer, Troy, N. Y.........Oct. 12
Oct. 18. Sewers, Canton, O.........Oct. 12
Oct. 20. Sewers, Grants Pass, Ore.........Sept. 28
Oct. 21. Sewer outfall, Fort Miley, Cal.........Oct. 5
Oct. 20. Sewers, Princeton, Ind.........Sept. 28
Oct. 20. Sewer system, Lake City, Fla.........Sept. 28
Advertised, Eng. News, Sept. 28 and Oct. 5.
Oct. 23. Main sewers, Belding, Mich.........Oct. 12
Oct. 24. Sewers, Wauseon, O.........Oct. 12
Oct. 24. Sewers, Cleveland Heights, O.........Oct. 5
Oct. 26. Main sewer, etc., Portsmouth, O.........Oct. 5
Oct. 27. Sewer mains, North Platte, Neb.........Oct. 12
Nov. 2. Purification works, Columbus, O.........Oct. 5
Advertised Eng. News, Oct. 5 to Nov. 2.
Nov. 4. Pipe sewer, Grosse Pointe Farms, Mich.Oct. 12
Nov. 6. Concrete sewer, Plainfield, N. J.........Oct. 12
Advertised, Eng. News, Oct. 12.
Nov. 6. Sewers, Napoleon, O.........Oct. 12
Nov. 6. Sewers, Glendale, O.........Oct. 12
Nov. 7. Sewers, Chattanooga, Tenn.........Oct. 12
Advertised, Eng. News, Oct. 12 and 19.
Dec. 11. Sewerage, Sheldon, Ia.........Oct. 12
Jan. 12. Sewer system, Philippines.........Sept. 21
Advertised, Eng. News.

STREETS AND ROADS.

Oct. 12. Paving, Findlay, O.........Oct. 5
Oct. 14. Paving and curbing, Zanesville, O......Oct. 5
Oct. 14. Gravel roads, Danville, Ind.........Oct. 5
Oct. 14. Macadamizing, Norwood, O.........Oct. 5
Oct. 14. Cement walks, Washington, D. C.........Sept. 21
Advertised, Eng. News, Sept. 21 and 28.
Oct. 15. Cement walks, Cedar Rapids, Ia.........Oct. 12
Oct. 16. Cement walk, Chillicothe, O.........Oct. 12
Oct. 16. Paving, Decatur, Ill.........Oct. 12
Oct. 16. Paving and curbing, Huntington, W. Va.Oct. 12
Oct. 16. Roads and walks, Ft. Hancock, N. J....Sept. 28
Oct. 16. Paving, Ft. Oglethorpe, Ga.........Oct. 5
Oct. 17. Paving, etc., Ashland, O.........Oct. 12
Oct. 17. Paving, asphalt, Rensselaer, N. Y.........Oct. 12
Oct. 18. Grading, San Antonio, Tex.........Oct. 12
Oct. 18. Roads, Harrisburg, Pa.........Oct. 5
Oct. 18. Paving, asphalt, Cincinnati, O.........Sept. 28
Oct. 18. Grading, Argenta, Ark.........Sept. 28
Oct. 18. Paving, brick, Moundsville, W. Va......Sept. 28
Oct. 19. Cement walks, etc., Trenton, O.........Oct. 12
Oct. 19. Road, Jersey City, N. J.........Oct. 12
Oct. 20. Paving, Green Bay, Wis.........Oct. 5
Oct. 23. Paving, Sherman, Tex.........Oct. 5
Oct. 23. Macadamizing, Beloit, Wis.........Oct. 12
Oct. 23. Concrete roadway, Savannah, Ga.........Oct. 12
Oct. 24. Macadamizing, Cincinnati O.........Oct. 5
Oct. 25. Paving, Hoboken, N. J.........Oct. 12
Nov. 1. Paving, Steelton, Pa.........Sept. 14
Advertised, Eng. News, Sept. 14 to Oct. 5.
No date. Grading, Baltimore, Md.........Oct. 12
Advertised, Eng. News, Oct. 12.

MISCELLANEOUS CONTRACTS.

Oct. 12. Dredging, New York, N. Y.........Sept. 28
Advertised, Eng. News, Sept. 28 and Oct. 5.
Oct. 12. Dredging, Seattle, Wash.........Sept. 21
Oct. 13. Towers, tanks, etc., Washington, D. C...Oct. 5
Advertised, Eng. News, Oct. 5 and 12.
Oct. 13. Ditchwork, Pocahontas, Ia.........Sept. 28
Oct. 14. Filling and grading, New Orleans, La....Sept. 28
Oct. 14. Breakwater, Indian Head, P. E. I.........Sept. 28
Oct. 14. Dredging, Charleston, S. C.........Sept. 28
Advertised, Eng. News, Sept. 28.
Oct. 16. Dyke work, New York, N. Y.........Sept. 28
Advertised, Eng. News, Sept. 28 to Oct. 19.
Oct. 16. Pumps, boilers, beams, etc., Wash., D. C..Oct. 5
Oct. 16. Ditch work, Olivia, Minn.........Oct. 5
Oct. 16. Dredging, New York, N. Y.........Oct. 5
Advertised, eng. News, Oct. 5 and 12.
Oct. 17. Dredging, New York, N. Y.........Oct. 5
Advertised, eng. News, Oct. 5 and 12.
Oct. 17. Crane, Washington, D. C.........Sept. 21
Oct. 17. Cement, brick, etc., Porto Rico.........Sept. 21
Oct. 17. Earth embankment, Roswell, N. Mex.....Aug. 24
Advertised, Eng. News, Aug. 24 to Oct. 5.
Oct. 17. Air hoist, motor, etc., Washington, D. C..Sept. 28
Oct. 17. Cement, rails, pipe, etc., Wash., D. C...Sept. 28
Oct. 17. Masonry, channel, Waterbury, Conn.....Oct. 12
Oct. 18. Smoke stack, Alliance, O.........Oct. 12
Oct. 18. Riprap, Baltimore, Md.........Oct. 12
Oct. 19. Ditch work, Slayton, Minn.........Oct. 12
Oct. 19. Ditch work, Moorhead, Minn.........Oct. 5
Oct. 20. Ditch, Rockwell City, Ia.........Oct. 12
Oct. 20. Pier work, sand, New York, N. Y.........Oct. 12
Oct. 20. Ditch work, Crookston, Minn.........Oct. 12
Oct. 21. Dredging, Washington, D. C.........Sept. 28
Advertised, Eng. News, Sept. 28 to Oct. 26.
Oct. 23. Rehandling machine, Philadelphia, Pa...Sept. 21
Advertised, Eng. News, Sept. 21 to Oct. 19.
Oct. 23. Vacuum cleaning system, Lincoln, Neb..Oct. 5
Oct. 23. Drain, Clarinda, Ia.........Oct. 12
Oct. 23. Canal lock, Savannah, Ga.........Oct. 12
Oct. 24. Cable, cement, etc., Washington, D. C...Oct. 12
Oct. 24. Elevating equipment, etc., Wash., D. C..Oct. 12
Oct. 25. Concrete dock, Chicago, Ill.........Sept. 7
Oct. 25. Wharf, etc., California City Point, Cal...Sept. 14
Advertised, Eng. News, Sept. 14 and 21.
Oct. 27. Rip-rap, sea wall, New York, N. Y.....Sept. 28
Advertised, Eng. News, Sept. 28 to Oct. 26.
Oct. 28. Earth removal, Portsmouth, N. H.........Oct. 5
Oct. 30. Dredging, Washington, D. C.........Oct. 5
Advertised Eng. News, Oct. 5 to Nov. 2.
Nov. 1. Jetty, Washington, D. C.........Oct. 5
Advertised, Eng. News, Oct. 5 to Nov. 2.
Nov. 1. Lock, dam, etc., Chicago, Ill.........Sept. 7
Advertised, Eng. News, Sept. 7.
Nov. 1. Portland cement, Denver, Colo.........Oct. 12
Advertised, Eng. News, Oct. 12 to Nov. 2.
Nov. 1. Retaining wall, Cincinnati, O.........Oct. 12
Nov. 2. Wreck removal, Norfolk, Va.........Oct. 12
Advertised, Eng. News, Oct. 12 and 19.
Nov. 3. Canal, bridges, etc., Port Huron, Mich. Oct. 12
Advertised, Eng. News, Oct. 12 to Nov. 2.
Nov. 3. Ammunition hoists, Washington, D. C.....Oct. 5
Advertised, Eng. News, Oct. 5 to Nov. 2.
Nov. 4. Tile drain, Raymond, Ill.........Oct. 12
Nov. 6. Garbage disposal, New York, N. Y.........Sept. 7
Advertised, Eng. News, Sept. 7 to Nov. 9.
Nov. 7. Lime, roofing, etc., Cuba.........Oct. 12
Nov. 9. Wharf, etc., Havana, Cuba.........July 27
Nov. 15. Irrigation canals, Glendive, Mont.........Sept. 28
Advertised, Eng. News, Sept. 28 to Nov. 9.
Nov. 20. Concrete wall, Chattanooga, Tenn.......Oct. 12
Advertised, Eng. News, Oct. 12 to Nov. 16.
Dec. 1. Railroads, Philippines.........Sept. 7
Dec. 15. Railways, Philippines.........Sept. 21
Jan. 1. Statue, Indianapolis, Ind.........July 20
Advertised, Eng. News, July 20.
Jan. 2. Railroad, Chile.........Aug. 24
No date. Street railway, Wabash, Ind.........Sept. 28
Advertised, Eng. News, Sept. 28.
No date. Street railway, Indianapolis, Ind.........Sept. 28
Advertised, Eng. News, Sept. 28.
No date. Steel rolled beams, New York, N. Y....Oct. 12
Advertised, Eng. News, Oct. 12 and 19.

RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

ATCHISON, TOPEKA & SANTA FE.—Announcement is made that the line from Eureka to Fortuna, Cal., will be extended to Willits, and at that point will consolidate with the California Northwestern Ry. R. B. Burns, Los Angeles, Cal., is Ch. Engr.

BALTIMORE & OHIO.—Paul Didier, Dist. Engr., at Allegheny, Pa., advises us that the newspaper reports of the construction of a new line between Pittsburg and Ellwood City were unauthorized, and that no decision has been reached to build any such line.

It is reported that HOOVER & KINNEAR, of Columbus, O., and RINEHART, DENNIS & CO., have been awarded contracts for the steam shovel and masonry work on an 8-mile cut-off near Lodi, O.

Preliminary survey is being run for a cut-off for through-bound freight from Sykesville, Md., to Bayview Junction.

BROWNWOOD, WACO & NORTHERN.—It is reported that Brooke, Smith & Co., of Brownwood, Tex., are interested in the promotion of this railway. It would be built from Brownwood to Rising Star and May, Tex.

BIRMINGHAM, COLUMBUS & ST. ANDREWS.—We are informed that this company is ready to let the contract for building 100 miles of railway. Surveys are made and right-of-way obtained. Capital for construction is arranged for. The line, as now projected, will be 200 miles long, from Chipley to Greenville, Fla., to Dotham, Abbeville, and Eufaula, Ala., Pittsview, Ala., and Columbus, Ga. W. M. Gordon, Columbus, Ga., is Pres., and J. M. Garret, Chipley, Fla., is Ch. Engr.

COLORADO, WYOMING & IDAHO.—Construction has been begun on this railway. It will run from Denver, Colo., to Boise, Idaho, via Yellowstone Park. The INTERSTATE CONSTRUCTION CO., of Arizona, has the general contract. The line will be 800 miles long. A 300-mile extension may be built at a later date to the Pacific Coast. C. E. Hayes, of Boston, is first vice-pres. Wm. H. Ward, of Lowell, Mass., is interested in the construction. Estimated total cost is $30,000,000.

CHICAGO, WEATHERFORD & BRAZOS VALLEY.—The contract for building this road from Weatherford to Bridgeport, Tex., 36 miles, has been awarded to the McCARTHY-MILLER CONSTRUCTION CO., of Weatherford, and Lufkin, Tex. George M. Bowie, Weatherford, is Pres.

CHICAGO, BURLINGTON & QUINCY.—An extension may be built from Franney, Wyo., to Worland, about 60 miles. W. L. Breckinridge, Chicago, Ill., is Ch. Engr.

CHATTANOOGA & MONTLAKE.—We are advised that two miles of railway are now built and that 11 miles additional probably will be built this year. G. W. Nixon is Ch. Engr., and A. T. Whiteside, Pres., at Chattanooga, Tenn.

COAL BELT.—Incorporated in Utah with $100,000 capital stock. Company will build a railway from Spanish Fork, Utah County, up Spanish Fork Canyon to Tie Fork, across Soldier's Summit, by way of Emma Park and Brook Cliffs to coal fields owned by Col. S. B. Milner, in Carbon County, a distance of 90 miles. Est. cost, $1,500,000. Col. S. B. Milner is Pres.; A. C. Milner, Vice-Pres.; Harrison E. Jenkins is Secy.

CRITTENDEN RY.—We are informed that this road will be 15 miles long, when completed. It will extend from Earle to Heth, Ark. Noted on Aug. 3.

CUMBERLAND R. R.—This company, which is building a 10-mile railway from Artemus into Brush Creek coal fields, in Knox County, Ky., will build an extension to Jellico, Tenn., a distance of 17 miles.

COLORADO & ARIZONA.—Surveys are being made from Durango, Colo., through Pueblo and Colorado Springs, to Denver. Active work of construction may begin into this fall.

DARIEN, ATLANTIC & GULF.—An extension will be built from Barrows Bluff to Helena, Ga.; and from Nashville, Ga., to a point on the Gulf of Mexico. The following committee was appointed: Vice-Pres. John McLean, Jr., G. W. Deneen, John E. W. Watlery, and W. M. Toomer, Douglas, Ga.

ERIE RAILROAD.—The proposed cut-off from Lakewood, N. Y., to Columbus, Pa., will be 21 miles in length, and will pass through Ashville, Watts Flats, Nioba and Lottsville. It is reported that contracts are to be let during the present month. F. L. Stuart, 21 Cortlandt St., New York, is Ch. Engr.

GRAND TRUNK PACIFIC.—Frank W. Morse, Gen. Mgr., Montreal, Que., on Oct. 5 awarded the contract for building the Lake Superior branch of the G. T. P. system, 210 miles, to FOLEY BROTHERS, LARSEN & CO., of St. Paul, Minn., and Winnipeg, Man.; 500 miles will be under construction by the end of October and 1,000 miles by the end of November, it is reported.

GEORGIA, FLORIDA & ALABAMA.—We are informed that only preliminary surveys have been made for proposed extension from Carrabelle, Fla., to Atlanta, Ga., via Columbus. Three lines have been run, but none adopted. As yet options for right-of-way have been secured over half of the routes. Arrangements have been made for money to do the work. No contracts have been let, but probably will be awarded about Jan., 1906. P. L. Stocker is Ch. Engr., at Bainbridge, Ga. J. P. Williams, Savannah, Ga., is Pres.

GULF & NORTHWESTERN.—We are advised that survey is partly completed. This railway will be about 225 miles long, extending from Waco, Tex., to Meridian, Stephensville and Thurber; and from Meridian to Hamilton, Glenrose and Granbury, Tex. Balance of survey will be made without delay. Contracts will be let when surveys are completed and right-of-way secured. Present work will be confined to main line, 110 miles, and one 60-mile branch and one 40-mile branch. N. R. Morgan, Meridian, Tex., is Secy.; W. M. Knight, Fort Worth, is Pres.; P. A. McCarthy, Lufkin, Tex., is Ch. Engr.

HOUSTON & TEXAS CENTRAL.—W. S. HIPP, of Houston, Tex., has been awarded general contract for grading the cut-off between Mexico and Navasota, Tex. G. F. Hawks, Houston, is Gen. Mgr.

KANAWHA & WEST VIRGINIA.—Contracts for building an extension from Blue Creek to Charleston, W. Va., 13½ miles, has been awarded to RINEHART, WYATT & CO., of Charleston. This work was advertised in Engineering News on Aug. 31. N. C. Van Natta, Charleston, W. Va., is Ch. Engr.

NEVADA-CALIFORNIA-OREGON RY.—We are advised that details are not yet completed for the proposed extension from Madeline to Alturas, Cal., noted in Engineering News on Aug. 31.

NASHVILLE, CHATTANOOGA & ST. LOUIS.—We are informed that contract for extending the Swan Creek branch 2¼ miles, has been awarded to P. BRADY, of Nashville, Tenn. Hunter McDonald, Nashville, is Ch. Engr.

OREGON WESTERN.—We are advised that surveys are being made for this railway, which will be built by the Southern Pacific Ry., from Drain, Ore., to Marshfield, via Reedsport, 81 miles. Capital for construction is secured and right-of-way is being obtained. No contracts are let. William Hood, Merchants' Exchange Bldg., San Francisco, is Ch. Engr. S. P. Ry.

PITTSBURG, CINCINNATI, CHICAGO & ST. LOUIS.—The new Cumberland branch will be extended from the terminal at Chester, W. Va., to Monaca and Colonia, Pa. Thomas Rodd is Ch. Engr., at Pittsburg, Pa.

PELHAM, BAINBRIDGE & GULF.—We are informed that surveys are not completed nor capital secured for building this railway. It will be constructed 30 miles and then consolidated with other roads and form part of a trunk line about 200 miles long. Contract will be let as soon as company can get contractor who is prepared to finance the line. Company is negotiating with several parties. David C. Barrow, of Pelham, Ga., is interested. Company was recently chartered. Noted on Sept. 14.

PITTSBURG & CROSS CREEK.—Contract has been awarded to GIANINI CONSTRUCTION CO., of Pittsburg, for building the 7-mile line. Noted last week.

RALEIGH & PAMLICO SOUND.—We are advised that surveys for this railroad are nearly completed and right-of-way partly secured. Capital is secured. Contracts will be let within 30 days. Ten miles of track are laid and five miles more are graded. The projectors of the recently organized North Carolina & Ohio Ry. have secured control of the Raleigh & Pamlico Sound and the companies will be merged under the latter title. The railway will extend from Raleigh to Wilson, Washington and New Bern, N. C. Charles O. Haines, of Raleigh, N. C., is Pres. and John W. Stewart Ch. Engr.

ST. LOUIS, IRON MOUNTAIN & PACIFIC (Missouri Pacific). — Contract for double-tracking the main lines of the Iron Mountain at Little Rock and Texarkana, Ark., has been let to C. F. SMITH & CO., of Memphis, Tenn., and SCOTT & SONS, of St. Louis. The contract calls for a total of 25 miles of double-tracking. The main line will be doubled seven miles north and eight miles south of Little Rock and ten miles north of Texarkana. The contract calls for an expenditure of $175,000.

SACRAMENTO & LAKE TAHOE.—Incorporated in California to build a railroad from Sacramento, via Folsom and Placerville, to Lake Tahoe, 125 miles, with three branches, each 20 miles long, one of which will extend to Auburn. Capital stock, $7,500,000. Incorporators: W. S. Graham, Leo Alexander, James H. Swift, Thomas H. Nicholls, Edward F. Haas, T. Otway Sadlier, John A. Black, B. G. Raybould, and Charles Wesley Reed. C. W. Reed, of San Francisco, is Attorney for the company.

SARATOGA & ENCAMPMENT.—Company has been incorporated in Wyoming to build a railroad from Walcott to Saratoga and Grand Encampment, 44 miles. Surveys have been made. It is reported that KILPATRICK BROS. & COLLINS, of Beatrice, Neb., will be awarded the contract for the construction work. Capital stock, $1,000,000. Incorporators: Fennimore Chatterton, Secretary of State of Wyoming; W. C. Henry, of Grand Encampment; J. M. Rumsey, of Rawlins, Wyo.; and others. Fennimore Chatterton is Pres.; W. C. Henry is vice-Pres., and J. M. Rumsey is Secy.

SEABOARD AIR LINE.—It is announced that this company has bought Grassy Island, at the mouth of Millsborough River, Tampa, Fla., paying $25,000 for the property. The road will use the island in the construction of extensive terminals at this port, involving an outlay of $200,000.

SOUTH & WESTERN. — We are advised that contract for 300 miles of additional railway, costing from $100,000 to $125,000 a mile, has been awarded to the CAROLINA COMPANY, Bristol, Tenn. M. J. Caples has been appointed Ch. Engr. of the Carolina Co. and the South & Western Ry. Co., at Bristol, Tenn.-Va.

ST. LOUIS & NORTH WESTERN.—We are informed that time has not been decided upon for construction of this railway. Surveys are made and right-of-way secured. I. K. Pierson, 416 Cuyahoga Bldg., Cleveland, O., is Ch. Engr. The line will be 120 miles long, extending from Mokane, Mo., via Fulton, Columbia, Fayette, Roanoke, Salisbury, and Marceline, to Brookfield, Mo.

TEXAS, NEW MEXICO & PACIFIC.—We are informed that surveys will commence at once for this railway. Capital is secured. Contract has been awarded to the ROCK ISLAND CONSTRUCTION CO., of Chicago. Right-of-way is practically secured. The railway will be about 500 miles long, extending from McKinney, Tex., to Roswell, N. Mex. Jesse Shain, McKinney, is Pres.

YELLOWSTONE PARK RAILROAD.—The UTAH CONSTRUCTION CO., of Ogden, Utah, has been awarded the contract for building 18 miles of this road from Saint Anthony to Marysville, Idaho. As noted on Sept. 14, company was incorporated in the interest of the Oregon Short Line to build a road from Saint Anthony to the Yellowstone Park. W. H. Bancroft is Pres., and William Ashton, Ch. Engr., both of Salt Lake City, Utah.

ELECTRIC RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

MONSON, MASS.—The Springfield & Eastern St. Ry. Co. will extend its line from Monson to Fiskdale, via Brimfield, provided certain franchises are granted. A. J. Purinton, Palmer, Mass., is Gen. Mgr.

ILION, N. Y.—We are informed that no construction work has been done yet on the proposed Ilion & Sydney R. R. W. G. Stone, 47 Mann Bldg., Utica, N. Y., is Ch. Engr. The line will be 63 miles long, extending from Ilion to Sydney. Surveys are completed and right-of-way practically secured. Capital is promised. Contracts may not be let before next spring.

STROUDSBURG, PA.—The Stroudsburg & Wind Gap Electric Railway Co. is reported to have reorganized with the election of the following officers and directors: J. B. Williams, Pres.; Joseph Shiffer, vice-Pres. Congressman G. A. Schneebeli, Treas.; E. F. Arbogast, Secy.; G. A. Schneebeli, J. H. Wolle, C. A. Wolle, J. Shiffer and J. B. Williams are directors. The company was originally capitalized at $100,000, and the new company will increase the capital to $[illegible] to build and properly equip the new line. The route will be surveyed and definitely located at once. A franchise has been obtained in the Borough of Wind Gap and right-of-way secured along the proposed route.

WILMINGTON, DEL.—We are advised that nothing is done yet in way of extending the Wilmington, New Castle & Southern Ry. into Wilmington from New Castle beyond securing new charter and necessary franchises. Harry L. Evans, Wilmington, is Pres.

NORFOLK, VA.—City will grant right-of-way along 24th St. for the proposed Norfolk & Portsmouth Belt Line.

NORFOLK, VA. — The Willoughby Bay Traction Co. has been chartered in Virginia, with $50,000 capital, to build a railway from the Jamestown Exposition grounds at Pine Beach to Willoughby Beach. H. L. Smith is Pres. and Gen. Mgr.; J. N. Vaughan, vice-Pres., and C. H. Consolvo, Secy. and Treas., all of Norfolk.

LOUISVILLE, GA.—We are informed that Frank Lederle and Ransom Rogers, Engrs., Atlanta, Ga., have completed preliminary surveys for electric railroad running northward from Louisville, Jefferson County, to a connection with the Augusta Southern R. R. It will be about 15 miles long and will pass through a rich farming section. W. W. Abbot, W. J. Wren, J. L. Stapleton, Rhoades Bros., and other local capitalists are interested.

ATLANTA, GA.—We are advised that location surveys are made and franchises and right-of-way obtained for the Atlanta & Carolina Ry. from Atlanta to East Atlanta and via Lithonia, to Conyears, Ga., about 30 miles with ten branches. Funds are secured. THE ATLANTA & CAROLINA CONSTRUCTION CO., of Atlanta, which holds the contract for building and equipping the line, will sub-let contracts. M. Edgerton, 515 Prudential Bldg., Atlanta, is Secy. and Mgr.; M. Mason, at same address, is Ch. Engr.; and J. R. Hooch is Pres.

KNOXVILLE, TENN.—The Knoxville Ry. & Light Co. plans to build an electric railway to Fountain City. The promoters are Wm. Maxey, H. W. Walker, M. A. Walker, J. H. Ragsdale, J. P. McCarty, W. M. Fitzgerald, Wm. A. Knabe, Thos. Rodgers, Alex. Maxey, S. B. Griffin, M. Loy.

NASHVILLE, TENN.—We are informed that contracts will be let within 30 days or as soon as necessary data is arranged in Engineer's office, and that bids will be received at once for construction of the Nashville Interurban Ry. Surveys and right-of-way from Nashville to Franklin, about 20 miles, are completed. Financial arrangements are made for building this section of the railway, which will be 120 miles long, when completed. The line will extend from Nashville to Gallatin, Franklin, Columbia, Mt. Pleasant and Lewisburg. Charles S. Brown is Ch. Engr. and E. B. Stahlman, Pres., at Nashville. Judge John A. Pitts is Atty.

MAYSVILLE, KY.—We are advised that survey is nearly completed for the Maysville, Carlisle, Millersburg & Paris Traction line. All right-of-way is obtained. J. N. Kehoe, Maysville, is Pres. The line will be 60 miles long, running from Maysville to Paris, by way of Washington, Mayslick, Blue Lick, Carlisle and Millersburg. Previously noted.

TOLEDO, O.—We are advised that T. Rhys Smith, Ch. Engr. of the Cincinnati, Toledo & Detroit Short Line Ry., has opened offices at 208 Meredith Bldg., Toledo, and desires to receive trade catalogues. The contract for building this railway from Toledo to Cincinnati has been awarded to the GARDNER CO., of Toledo. Work will be commenced soon and this company will be in the market for materials and supplies.

WELLSVILLE, O.—City has granted a franchise to the East Liverpool R. R. Co. to build a double-track electric line through Wellsville. This extension will be constructed from East Liverpool soon. L. W. Healy, East Liverpool, is Pres. and Gen. Mgr.

EAST LIVERPOOL, O.—The East Liverpool Traction & Light Co., headquarters at East Liverpool, $6,000 capital stock, to connect East Liverpool, Wellsville, Steubenville and Bellaire, has been incorporated by Van Horn Ely, N. B. Billingsley, Ed. McDonnell, S. B. Davies, M. J. McGraw.

The East Liverpool & Youngstown Railroad Co., of East Liverpool, $[illegible] capital stock, to connect both cities, was incorporated by C. Ford, N. B. Billingsley, D. W. Johnson, M. E. Johnson and C. B. Kenty.

VINCENNES, IND.—We are informed by Lewis Metesser, representing [illegible] Keeler Co., New Orleans, La., who has contract for building the Vincennes, West Baden & Louisville Traction Co.'s line, that this company has contract for all work with exception of the steam plant. Company has not sub-let contracts for materials or labor. Fully noted last week. Communications should be addressed to Mr. Metesser at Hibernia Bank Bldg., New Orleans.

CHICAGO, ILL.—The Chicago, Desplaines & Fox River Ry. Co. has been incorporated in Illinois to build an electric railway from Chicago to McHenry, 40 miles, passing through the towns of [illegible] Forest, River Grove, Franklin Park, Desplaines, Arlington Heights, Barrington, [illegible] Zurich and McHenry. Capital stock, $[illegible]. Incorporators: G. W. Bryson, William S. Reed, Ernest T. Ross, Walter C. Gunn and William K. Kenly, all of Chicago. G. W. Bryson is Pres. and William S. Reed vice-Pres. Construction will be started this fall.

EAST ST. LOUIS, ILL.—The St. Louis & Northeastern Railroad Co. has been granted a franchise by the East St. Louis city council to operate an electric railway on Gross Ave., 15th St., Summit and College Aves., Tenth St., Illinois Ave., Third St., Missouri Ave., Fifth St. and St. Louis Ave. R. D. Smith, of Edwardsville, Ill., is Gen. Supt. The line will connect Edwardsville and East St. Louis.

SPRINGFIELD, ILL.—We are advised that the Springfield & North Eastern R. R. Co. has secured necessary right-of-way for its line from Springfield to Lincoln, Lincoln to Peoria, and Lincoln to Bloomington, 104 miles. All grading is completed, also bridges between Springfield and Lincoln. La Fayette Funk, Bloomington, is Pres. L. E. Meyers, Chicago, is Ch. Engr.

FAIRFIELD, ILL.—We are informed that surveys have been made by the Fairfield & Olney Traction Co. over private right-of-way, with good terminals in Fairfield and Olney, in direct line. Capital is promised. Contracts may be let within 30 days for building the railway. The maximum grade is 1%. The line will carry freight as well as passengers. Power-house will be located between terminal points with lake sub-station at each end. John Absher, Olney, is Pres.; John W. Wallace, Olney, is Ch. Engr.

BROOKINGS, S. DAK.—We are informed that preliminary survey for the Brookings & Sioux Falls Ry. Co. has been completed between Brookings and Flandreau. The company will be ready in a few days to let the contracts for the construction of the road. The company expects to equip the road with gasoline electric motor cars. Neil Stewart, of Brookings, is interested.

SEDALIA, MO.—We are advised that the promotion of the Central Railway from Miami to Marshall and Sedalia, Mo., is being rapidly pushed. E. C. Wright, Kansas City, is Pres. Ernest D. Martin, Marshall, Mo., is Gen. Mgr. The line will be 50 miles long.

ENID, OKLA.—D. S. Roberts has been granted a street car franchise in this city.

CHICO, CAL.—City council has granted a franchise to the Northern Electric Ry. Co. in this city. Grading between Chico and Oroville is now under way. Col. E. A. Forbes, of Marysville, Cal., is Pres.

BOISE, IDAHO.—The Boise Interurban Ry. Co. will build an interurban line between Boise and Nampa and from Boise to Caldwell, a total distance of 68 miles. The Roberts & Abbott Co., of Cleveland, is Engr., it is reported.

LIGHT AND POWER PLANTS.

The names of parties awarded contracts are printed in capital letters.

ELLSWORTH, ME.—W. H. Burlen, of Boston, Mass., has obtained permission to construct a dam across the Union River at a cost of $1,000,000. There will be two dams built; one a power dam and the other a power and storage dam. Power house will be built. New bridges will be erected.

WESTPORT, CONN.—Westport Water Co., Fred B. Hubbell, Supt., controlling waterworks and electric light plant, will construct a six-mile pole line, and will install a return tubular boiler and a 75-HP. high speed engine.

GENEVA, N. Y.—We are advised that bids were received on Oct. 5 for about four miles of electric conduits. Contract is not yet awarded. C. T. Church is Cy. Engr.

RUTHERFORD, N. Y.—Municipal ownership of a gas plant is being considered. Thomas W. Evans, as Chn. of Committee, has submitted a report to the mayor, in which it is estimated that plant can be built for $160,000 or $175,000. Appropriation was made to engage expert to pass upon the project.

WILLETS POINT, N. Y.—Lieut.-Col. Arthur Murray, Artillery Corps, in report to commandant of the School of Submarine Defense, Fort Totten, recommends an appropriation of $70,000 for a model power plant and $55,000 for the installation of a suitable torpedo plant for instruction.

CLAYMONT, DEL.—C. Dillenbeck, Arch., Reading Terminal, Philadelphia, has prepared plans for a power house here for Texas & Co.

WASHINGTON, D. C.—Bids are asked until 10 a. m., Oct. 20, for furnishing at the navy yard, New York, N. Y., 31 motor generators, 2-KW. to 15-KW., 80-volt to 220-volt; and 7 alternating armatures, 2-KW. to 5-KW. Applications for proposals should refer to Schedule 186. H. T. B. Harris, Paym.-Gen., U. S. N.

WASHINGTON, D. C.—Bids are asked until Nov. 8 for electric lighting fixtures for the House and Senate wings, U. S. Capitol Building. Elliott Woods, Supt. U. S. Capitol Building and Grounds. Noted under Buildings on Sept. 28 and advertised in Engineering News.

RAEFORD, N. C.—Stock is said to have been subscribed for the proposed power de-

velopment project of the Raeford Power & Mfg. Co. Those interested are J. W. McLaughlin, T. B. Upchurch and W. J. Upchurch, of Raeford; John Blue, of Aberdeen, and Charles Iceman, of McColl, S. C. Construction work may be undertaken at once.

MORGANTOWN, N. C.—The FORT WAYNE ELECTRIC CO., Ft. Wayne, Ind., has general contract to equip a municipal lighting plant at Morgantown.

COLUMBIA, S. C.—The Columbia Gas Light Co. will enlarge its gas plant. Wm. Elliott, Jr., is Engr.-in-Charge.

CARTERSVILLE, GA.—City will vote on Oct. 12 on the issuance of $20,000 of bonds for the erection of electric light plant and $80,000 for constructing a sewer system.

MONTICELLO, GA.—J. B. McCrary, Senoia, Ga., is Engr.-in-Charge of construction of electric light plant and water-works at this place. Previously noted.

KNOXVILLE, TENN.—Bids were received by Board of Public Works for city lighting. One bid was submitted for electric lighting; that of the Knoxville Ry. & Light Co., at $80 per light per year for three years; $77.50 a year for five years; $75 per year for seven years, and $72.50 per year for ten years. Three bids were received for gas lights. The Welsbach Street Lighting Co. was lowest, at $21.50 per light per year.

NEWPORT, KY.—Articles of incorporation of the Municipal Light, Power & Fuel Co. have been filed at Newport by Harvey Myers, James H. Young and B. Bramlage. The capital stock is $200,000, and shares are $100 each. This company holds a franchise for supplying gas to Newport when the franchise of the Union Light, Heat & Power Co., of Covington and Newport, expires in June, 1907. Company has the right to manufacture, generate, buy and sell gas and electric current for light, heat and power in the city of Newport.

VIRGIE, KY.—The Henderson Light & Gas Co. has been organized here to produce light, heat, power and electricity to the near-by mining towns in the Elkhorn coal field. Capital, $40,000. Incorporators: Geo. W. Wilson, Charles Osborn and R. W. Winston.

CINCINNATI, O.—Thomas Jenkins, representing the National Construction Supply Co., of St. Louis, Mo., has submitted proposition to the Light Committees of General Council to build and install an electric light plant, with duplicate machinery, of sufficient capacity to supply 400 arc lights of 2,000 c. p., and 2,000 incandescent lights for $75,000. He states that this plant could be operated with a saving of $2,000 or $3,000 a year on what the city is now paying for lighting the streets and public buildings.

ST. MARY'S IND.—Bids are asked until 1 p. m., Oct. 14, for installing a small electric power transmission plant, complete with generators, motors, pole line and appurtenances, and for the construction of a small brick pumping station for the Sisters of Providence, St. Mary's-of-the-Woods, Vigo County, Ind. Dabney H. Maury, Consulting Engr., 129 North Jefferson Ave., Peoria, Ill.

MONROE, MICH.—City has appropriated $5,000 for rewiring and installing meters at municipal electric light plant. William R Goellner is Ch. Engr.

GRAND RAPIDS, MICH.—Bids are asked by Board Public Service, M. S. Shanahan, Pres., until 1.30 p. m., Oct. 20, for direct-connected unit, consisting of engine, alternator and appurtenances. (Advertised, Engineering News.)

CHICAGO, ILL.—John H. Radford, Arch., is preparing plans for an addition to electric light plant at 58th St. and Cottage Grove Ave., Washington Park, for the South Park Commissioners. Bids will be received by the Commissioners. A central electric light plant may be built at cost of about $200,000 of sufficient capacity to light entire park system. D. H. Burnham & Co., Railway Exchange Bldg., are reported to be the Archs.

WAUKEGAN, ILL.—Materials are being purchased by the Chicago & Milwaukee Electric R. R. Co. for a $500,000 power house to be erected by the company at Waukegan or Kenosha. C. R. Fredericks, Highwood, Ill., is Gen. Mgr.

BURLINGTON, WIS.—Mayor John G. Mutter and John J. Prasch, City Clerk, of Burlington, are restrained from signing $12,000 bonds to be used in the erection of an electric lighting plant. Leonard Smith, a taxpayer, alleges that the council's action was not ratified by the voters of the city.

MILWAUKEE, WIS.—Council has adopted a proposition to set aside $60,000 for purchase of a site for a city lighting plant.

MOUNTAYR, IA.—A company with capital of $15,000 is to be organized in Mountayr to erect and maintain a gas plant. M. H. Springer, of Des Moines, Ia., is the promoter. F. E. Sheldon, H. H. Tedford, and A. R. Shrimplin, Hon. G. S. Allyn, Hon. W. S. Shriver, John E. Scott, F. F. Fuller, Bert Teale, C. K. Pierson, E. W. McDonald, H. H. Wilson, and Mrs. Martha Timby, of Mountayr, are interested. M. N. Hamilton, of Osceola, is to invest heavily and to take the management of the plant, it is reported.

SHAWNEE, OKLA.—It is reported that the Shawnee Union Electric Co., capital $250,000, will erect an electric light and power plant here.

GREELEY, COLO.—The Home Electric Light & Power Co. will increase its capital from $4,500 to $50,000, and will enlarge its electric plant. Prof. Frank Abbott, of the State Normal School, at Greeley, is interested.

NORTH YAKIMA, WASH.—I. W. Anderson, of Spokane, Wash., has been granted franchise in North Yakima for a gas plant. Ordinance provides that construction must be begun within 90 days.

LA GRANDE, ORE.—The Grande Ronde Electric Co. may extend its line to Elgin, Ore., to furnish light and power to that city. W. M. Pierce is a stockholder.

SAN FRANCISCO, CAL.—The Ocean Shore Electric Ry. Co. will erect a 6,000-HP. electric power plant near Half-Moon Bay. We have been informed that contract for construction of first 14 miles of road south from Santa Cruz for the Ocean Shore Ry. has been let to the SAN FRANCISCO CONSTRUCTION CO. Projected length of the road is 81 miles; surveys and right-of-way are completed, and capital for construction secured. W. E. Dean, San Francisco, Cal., is Pres.; John B. Rogers, San Francisco, Cal., is Ch. Engr.; Alfred D. Bowen, San Francisco, is vice-Pres. and Gen. Mgr.

ARIZONA.—Plans and specifications may be seen at office of Engineering News, 220 Broadway, New York, for furnishing complete, f. o. b., bidder's works, one or more 140-HP. water-wheels, with gate valves, pipe connections and governors, for use in Roosevelt power house, Salt River project; also for one or more alternating-current 900-KW., 25-cycle generators, one or more 100-KW., direct-current generators for exciter, and one switchboard containing one panel for generator and one panel for exciter for the power house noted above. Bids are asked until Nov. 1 and 2, as advertised in Engineering News. O. H. Ensign, Elec. Engr., Los Angeles, Cal.

BOISE, IDAHO.—The Boise Interurban Ry., work upon which is just begun, will build a $100,000 power plant at some point along the line. Messrs. Donaldson and Ustick are the promoters.

BRIDGES.

The names of parties awarded contracts are printed in capital letters.

WATERBURY, CONN.—Contract for building a concrete-steel bridge over Steele's Brook was let to GARDNER G. RIGGS, of Waterbury, for $8,105. R. A. Cairns is Cy. Engr

HARRISON, N. J.—The joint committee on free bridges of the Essex and Hudson County Boards of Freeholders has decided to build a draw or lift bridge over Passaic River at Flay St., Harrison. Cost, about $125,000.

WASHINGTON, D. C.—General Mackenzie, Ch. of Engrs., acting upon the recommendation of Col. Hoxie, the engineer officer in charge of the improvement of the Potomac River, has awarded the contract for construction of a concrete-steel bridge across the head of the Washington channel of the Potomac, to the PENN BRIDGE CO., of Beaver Falls, Pa., at its bid of $100,000. The bridge will form part of the Washington approach to the Potomac highway bridge. It will partly overlap the will-walls of the outlet gates of the tidal basin in Potomac Park. It will be 162 ft. long between abutments, 202 ft. over all, and 64 ft. wide between faces of spandrel walls, and will consist of three spans of 50 ft. approximately, elliptical in shape and composed of reinforced concrete. Provision will be made for electric conduit railway construction. The terms of the contract require that the bridge shall be completed within one year.

WASHINGTON, D. C.—W. J. Douglas, Engr. of Bridges, recently handed in his report to District Commissioners, in which he strongly recommends the rebuilding of K St. bridge. The bridge is structurally weak and will not permit of repairing; $38,000 is asked for its reconstruction.

A contract has been awarded to the PENN BRIDGE CO. to build the Anacostia bridge, excluding approaches, for $325,500. Work has been started.

Plans have been prepared for the Piney Branch bridge and the contract let to the PENN BRIDGE CO. for $42,731.

Plans have been prepared in the engineer's office for the construction of six concrete-steel bridges to replace timber stringer bridges in the district.

NORFOLK, VA.—Bids will soon be received by the Norfolk Viaduct Corporation, S. Heth Tyler, Pres., for constructing cantilever bridge or viaduct with towers at each end connected by steel truss.

PINE PARK, GA.—Fire destroyed the 400-ft. railroad trestle across Barnett's Creek, one mile east of here.

CEDARTOWN, GA.—It is reported that the County Commissioners are considering the erection of a steel bridge across Cedar town Creek.

HUNTSVILLE, ALA.—Bids will be received by County Commissioners until Nov. 6 for erecting a steel bridge one mile west of New Market on the New Hope Road.

LYNCHBURG, TENN.—The County Court has appropriated $2,400 toward the construction of a bridge across Elk River, between Moore and Franklin counties.

MEMPHIS, TENN.—Bids are asked by Shelby County, Tennessee Levee Commission, Chas. A. Barton, Engr., until 2 p. m., Nov. 6, for the construction of two 50-ft. span steel highway bridges on concrete piers, one 20-ft. span steel highway bridge, 1,065 ft. steel highway trestle, and the raising of 227 ft. of steel truss highway bridge. (Advertised, Engineering News.)

KNOXVILLE TENN.—The county will erect a steel bridge across Paint Rock Creek.

CLEVELAND, O.—We are informed that the contract for constructing concrete bridge on Crawford Road, over Dugway Brook, was awarded to the WESTERN RESERVE CONSTRUCTION CO., of Medina, O. Bids were opened on Sept. 28 by Board Public Service, A. R. Callow, Secy.

CHILLICOTHE, O.—Contract for constructing Salt Creek bridge has been let to HUSTON & CLEVELAND, of Columbus, at $7,280.

JEFFERSON, O.—P. C. Remick, County Audr., informs us that the call for bids to construct bridge at North Chestnut St. was withdrawn. Bids were to have been opened Oct. 7.

AKRON, O.—Sealed bids will be received by County Commissioners until 11 a. m., Oct. 28, for construction of an iron bridge, 60 ft. extreme length, with 16-ft. concrete top roadway and 4-ft. concrete sidewalk. M. D. Buckman, County Audr.; J. A. Gehres, County Surv.

TROY, O.—We are informed that the County Commissioners have awarded the contract for construction of superstructure of a high truss bridge over Stillwater River to the CENTRAL STATE BRIDGE CO., of Indianapolis, Ind., for $4,280. E. E. Pearson, County Audr.

FORT WAYNE, IND.—The County Commissioners have been petitioned to construct a bridge over Naumee River, half-way between the New Haven and Platters bridge. It is said the bridge will be ordered.

SCOTTSBURG, IND.—Bids are asked by County Commissioners until Oct. 14 for construction of three iron bridges. Frank C. Gardner, County Audr.

INDIANAPOLIS, IND.—County Commissioners have ordered a survey for new bridge over Fall Creek, at 30th St. Bids will be asked for a concrete arch bridge.

EVANSVILLE, IND.—We are advised that the County Commissioners opened bids on Oct. 9 for constructing bridges, and awarded contracts as follows: J. W. BEDFORD, Evansville, one concrete bridge, $654; BENNETT WHITEHEAD, Evansville, three concrete bridges, $1,398; VINCENNES (Ind.) BRIDGE CO., one concrete and one steel bridge, $1,109; JOHN KRAMER, Evansville, one concrete bridge, $464. Harry Stinson, County Audr.

TERRE HAUTE, IND.—Bids are asked by County Commissioners until Oct. 14 for building approaches to Russell bridge, in Otter Creek Township. Jerome W. Denehie, County Audr.

DELPHI, IND.—Fred. H. Engel, County Audr., writes us that the contract for constructing an iron bridge, 130 × 16 ft., in this county, was let Oct. 2 to the ATTICA (Ind.) BRIDGE CO., for $2,190.

PERU, IND.—C. W. Macy, County Audr., informs us that bids were opened by County Commissioners on Oct. 2 for constructing bridges and arches, and the contracts were awarded as follows: JOS. HOOVER, Bunker Hill, Ind., concrete abutments for two steel bridges; ROCHESTER (Ind.) BRIDGE CO., two steel bridges; C. H. BLACK, Pettysville, Ind., two concrete arches.

RENSSELAER, IND.—We are informed that the County Commissioners have given to the ATTICA (Ind.) BRIDGE CO., the contract for constructing two bridges in Jordan Township, at a total cost of $1,500.

GROSSE POINTE, MICH.—Contracts for constructing two steel bridges were let to FRANCIS J. & WM. J. MILLER, of Centerline, Mich., at $21,000.

CHICAGO, ILL.—Bids are asked by South Park Commissioners, 57th St. and Cottage Grove Ave., until Oct. 18, for construction of a bridge in Jackson Park. E. G. Shumway, Secy.

PEORIA, ILL.—The time for receiving bids for grade bridge has been extended from Oct. 2 to 16. C. M. Dolan, Cy. Engr.

DULUTH, MINN.—It is stated that this city will expend about $13,000 for repairs to Lake Ave. viaduct. T. F. McGilvray is Cy. Engr.

TWO ARBORS, MINN.—Bids are asked by County Commissioners until Oct. 17 for constructing a steel bridge across Knife River. John P. Paulson, County Audr.

MINNEAPOLIS, MINN.—City Council has directed Andrew Rinker, Cy. Engr., to proceed at once with work of widening the Washington Ave. bridge; $75,000 has been appropriated for the work.

LEAVENWORTH, KAN.—The contract for constructing a steel bridge at Eighth and Shawnee Sts., bids for which were opened Sept. 6, has been let to McGUIRE & STANTON, of Leavenworth for $6,249.

JEFFERSON CITY, MO.—F. W. Raer, County Clk., informs us that the CANTON BRIDGE CO., of Kansas City, Mo., was awarded contract, at $848, for building bridge over Coon Creek, bids for which were opened Oct. 3.

KANSAS CITY, MO.—D. W. Rider, Supt. Kansas City Belt Line Ry., has announced that the plans for viaducts that the company is to build will be ready for Board Public Works on Oct. 14.

PURCELL, IND. T.—J. W. Hooker writes us that the bridge to be built between this place and Lexington, at a cost of $30,000, (mentioned Sept. 28), will not be constructed until next spring.

DENVER, COLO.—Bids are asked by the Engineer, U. S. Reclamation Service, Denver, until 3 p. m., Nov. 8, for construction of concrete culverts, siphons, drops, flumes, wasteways, bridge abutments, etc.; and furnishing 10 combination highway bridges, and 570,000 lbs. steel. Amount of concrete is about 10,000 cu. yds. (Advertised, Engineering News.)

ABERDEEN, WASH.—We are informed that bids will be received by the city until Oct. 30 for constructing steel superstructure for bridge to be erected over Wishkah River. Est. cost, $30,000. P. F. Clark, Cy. Clk. The contract for constructing substructure has been let to the PACIFIC BRIDGE CO.; cost, $27,625.

SPOKANE, WASH.—County Commissioners have let contract to the PUGET SOUND BRIDGE & DREDGING CO. for the construction of a combination wood and steel bridge across Spokane River, for $3,353. Work is to begin immediately.

SPOKANE, WASH.—It is stated that bids will be received by Board Public Works until 2 p. m., Oct. 19, for construction of a pipe bridge across Spokane River, on Mission Ave. Bids will be received for either steel superstructure with tubular piers or reinforced concrete with concrete substructure.

PORTLAND, ORE.—A resolution has been introduced in the Council providing for the construction of a steel bridge across Sullivan's Gulch, on Grand Ave. Est. cost, $15,000. Chas. Wanzer is Cy. Engr.

SAN DIEGO, CAL.—A resolution of intention has been adopted for the construction of a bridge on Harrison Ave. G. A. D'Hemecourt is Cy. Engr.

SAN BERNARDINO, CAL.—M. L. Cook, County Surv., informs us that bids will be received by County Commissioners until Nov. 6, for construction of a one-span steel bridge at Idlewild. Est. cost, $2,400.

SALT LAKE CITY, UTAH.—It is stated that the Oregon Short Line R. R. will build a viaduct at North Temple. Wm. Ashton is Ch. Engr., Salt Lake City.

HULL, QUE.—Reports state that the city will build a 30-ft. concrete arch in connection with its water-works improvements.

VANCOUVER, B. C.—The Westminster Ave. bridge has been condemned and a new structure will be erected. Address, City Engineer.

EDMONTON, ALTA.—CHAS. MAY, of Edmonton, and CHAS. SHARPE, of Winnipeg, Man., have secured the contract for the erection of the steel and concrete bridge, to be erected at Edmonton. It will consist of five concrete piers, 60 ft. high.

BUILDINGS.

The names of parties awarded contracts are printed in capital letters.

NEW HAVEN, CONN.—Chas. C. Haight, Arch., 452 Fifth Ave., New York City, awarded the general contract to SPERRY & TREAT CO., of New Haven, for the seven-story fireproof dormitory No. 2, 53 × 117 ft., to be erected at Grove and Prospect Sts., for the Yale University. Cost, about $1,000,000.

HARTFORD, CONN.—Jos. A. Jackson, Arch., 1123 Broadway, New York City, has plans for a three-story parochial school, 74 × 120 ft., for the Immaculate Conception congregation. Rev. M. A. Sullivan, Pastor. Cost, $60,000.

NEW YORK, N. Y.—J. H. McGuire, Arch., 45 East 42d St., is taking figures on a chapel and convent to be erected at 140th St. and Broadway for the Corporation of St. Regis Maria, 626 West 140th St. Brick and stone, 1 and 3 stories, 77 × 85 ft., fireproof construction.

Bernstein & Bernstein, Archs., 24 East 23d St., have plans completed for an apartment house to be erected at 306-12 East 27th St., for J. M. Wimple, 204 East 72d St. Brick and stone, 6 stories, 37 × 85 × 48 ft.

A. W. Brunner, Arch., 33 Union Square, has plans in progress for a synagogue to be erected at Lenox Ave. and 120th St. for Temple Israel of Harlem.

C. B. J. Snyder, Arch., Park Ave. and 59th St., has plans in progress for an elementary public school to cost $300,000 to be erected at 41st St. and Third Ave., for Department of Education. Brick, stone and terra cotta, 5 stories, 200 × 100 × 75 × 100 ft.

Carrere & Hastings, Archs., 28 East 41st St., are taking figures on Carnegie Library No. 12, to cost $80,000, to be erected at St. George, Staten Island.

GEO. A. FULLER CO., 949 Broadway, has been awarded the general contract at 406-8 West 45th St., for the Thorndale Farms, 901 Sixth Ave. F. A. Rooke, 489 Fifth Ave., is Arch. Brick and stone, 5 stories, 50 × 96 ft.

F. C. Zobel, Arch., 24 East 21st St., has plans in progress for a loft building, to cost $60,000, to be erected at 147-9 West 26th St., for A. L. Felt, care Architect. Brick and stone, 6 stores, 32 × 100 ft.

M. J. Garvin, Arch., 3307 Third Ave., has plans in progress for engine-house No. 17, to cost $80,000, to be erected on East 143d St., Bronx, for the city. Brick and stone, 3 stories, 50 × 80 ft.

Cady & See, Archs., 6 West 22d St., have plans in progress for a church to be erected at 114th St. and First Ave. for the New York City Church Society, 150 Fifth Ave. Brick and stone, fireproof, 5 stories, 100 × 50 ft.

The Collins Building Co., 225 West End Ave., will take figures on an apartment house to be erected at 126th St. and Fifth Ave., from plans by F. S. Lowe, Arch., 186 Remsen St., Brooklyn. Brick and stone, 6 stories, 100 × 110 ft.

SYRACUSE, N. Y.—Preliminary sketches have been submitted by G. L. Heins, State Arch., Albany, for new armory, to be built at Syracuse. Cost, about $175,000.

FORT TOTTEN, N. Y.—Bids are asked until 1 p. m., Oct. 24, for plumbing of one double set of officers quarters at Fort Totten, Willets Point, N. Y. Capt. Geo. H. McManus, Q. M. (Advertised, Engineering News.)

NEW YORK, N. Y.—Wakeham & Miller, 1135 Broadway, want figures on electric wiring for a $100,000 church to be erected at Mt. Morris Park West and 122d St. for the Harlem Presbyterian Church. T. H. Poole, 13 West 30th St., is Arch. Brick and stone, 1 story, 100 × 100 ft.

TRENTON, N. J.—W. W. Slack, Arch, is preparing plans for a store and apartment house. Brick, 4 stories, 40 × 100 ft.

ATLANTIC CITY, N. J.—THOMPSON & STILES have been awarded the contract for a six-story addition to the Hotel Dennis for Walter Buzby.

NEWARK, N. J.—Sealed proposals will be received by Building Committee of the Essex County Board of Freeholders until 2 p. m., Oct. 30 for construction of hospital buildings at Overbrook. H. Gallagher, Chn.; Hurd & Sutton, Archs., Prudential Bldg., Newark.

JERSEY CITY, N. J.—Hugh Roberts, Arch., 1 Exchange Place, Jersey City, will take figures for Board of Chosen Freeholders of Hudson County for the erection of new court house at Newark and Baldwin Aves. Granite and marble, 3 stories, 135 × 175 ft. A. R. Wolff, 130 Fulton St., New York City, is Steam Engr.

The Board of Education, care J. H. Ward, 21 Montgomery St., Jersey City, will advertise for bids on school house No. 30 to be erected at Greenville on Old Bergen Road and Seaview Ave. J. T. Rowland, Jr., 15 Exchange Place, Jersey City, is Arch. Brick, 2 stories, 60 × 80 ft.

JERSEY CITY, N. J.—The Board of Education, Fred Ege, Clk., has accepted plans of John T. Rowland, Jr., Arch., Commercial Trust Bldg., for new primary school in the Greenville section and will receive bids up to Oct. 26.

SCRANTON, PA.—P. Stipp was the lowest bidder, at $52,200, for building city hall annex.

WILLIAMSPORT, PA.—ED. S. GILBERT & CO., Land Title Bldg., Philadelphia, have been awarded the contract for new public library here. Cost, $125,000.

SOUTH BETHLEHEM, PA.—A. W. Leh, Arch., South Bethlehem, is preparing plans for a church for St. Bernards R. C. Church. Cost, $75,000.

SCRANTON, PA.—Harvey J. Blackwood, Arch., 126 North Washington Ave., Scranton, is preparing plans for a church for the German Presbyterian Congregation. Cost, $40,000.

PITTSBURG, PA.—Contract for construction of freight station on the Duquesne Way Elevated line in Pittsburg has been awarded by Pennsylvania Railroad to W. F. TRIMBLE & SONS CO., of Allegheny. The building is to be 48 ft. wide and 900 ft. long. One half is to be four stories, while the remainder is to be one story. The cost is estimated at $450,000. Three thousand tons of structural steel will be required for the frame work. The walls are to be of brick. J. W. Webber & Son have been given the contract for painting the building; W. P. Oglesby, of Philadelphia, the plumbing, and the Otis Elevator Co. will install an elevator service, together with an improved hoisting machine to handle merchandise in barrels. Work is to begin immediately.

BALTIMOREE, MD.—E. Clay Timanus, Mayor, has approved ordinance appropriating $25,000 for the construction of hospital for infectious diseases.

John C. Carter, builder, North Ave., has commissioned Henry J. Tinley, Arch., 11 East Lexington St., to prepare plans for about 30 dwellings to be erected on Heyward Ave., near Park Heights Ave.

G. Howard White, 227 St. Paul St., and associates will erect about 120 dwelling houses on lots at Guilford Ave.

David M. Newbold and Chas. E. Savage, 334 Equitable Bldg., will erect 45 two-story houses on Hudson, Second and Fait Aves., to cost about $40,000.

BALTIMORE, MD.—The following bids were received by Jas. Knox Taylor, Supv. Arch., Washington, D. C., for the installation complete of boiler plant, heating and ventilating apparatus, etc., for U. S. custom house at Baltimore: Cleghorn Co., Boston, Mass., $44,877; Jas. E. Granberry & Co., Baltimore, $46,372; Crook-Horner Co., Baltimore, $49,720; T. M. Maguire, Minneapolis, Minn., $49,945; Thompson-Starrett Co., New York City, $50,751; Chas. H. Sanborn, Boston, $56,165; Downey & Kruse Co., Milwaukee, Wis., $56,300; W. N. Tobin, Syracuse, N. Y., $56,400; New York Steam Fitting Co., New York City, $59,972; E. Rutzler Co., New York City, $62,010; West End Heating & Eng. Co., Philadelphia, Pa., $64,235; Jos. McWilliams & Co., Louisville, Ky., $67,783; Gaylord & Eltapenc Co., Binghamton, N. Y., $69,000; S. Faith & Co., Philadelphia, $70,000.

WASHINGTON, D. C.—The following are the bids opened Oct. 3 by Superintendent of the U. S. Capitol Building and Grounds for cut stone work for the new Senate office building:

New England Granite Works, Westerly, R. I.—Bid A, $1,053,600. Concord, N. H., granite, limestone from Bedford, Ind., quarries, interior for vestibules, from Vermont Marble Co. If white marble from Proctor quarries is used for vestibules, $1,046,075. Bid B, entire work, Concord granite, white marble from Vermont Marble Co., $1,442,300. Bid C, Concord granite and Vermont marble, $903,360. Concord granite for street facades and Vermont marble for interior stone work.

John Pierce Co., 277 Broadway, New York City.—Bid A, Mount Waldo granite and Bedford quarries limestone and Vermont marble for interiors, $1,223,560. B, Mount Waldo granite, Vermont marble for interior work, $1,341,800. C, do, $1,072,200.

Wm. Bradley & Son, 277 Broadway, New York City.—Buff Indiana limestone, Bedford quarries for street facades, white marble from Vermont Marble Co., for interior, $689,180. Court facades alone, $136,690.

Norcross Bros., Worcester, Mass.—Bid A, Milford pink granite, Bedford limestone for interior, $1,323,000. B, Milford granite, Dorset quarry, $1,430,000. C, street facades and vestibules, Milford granite, Dorset quarry, $1,130,000. D, Georgia marble from Southern Marble Co., P. M. B. Bedford limestone, $1,117,000. E, Georgia marble from Southern Marble Co., $1,195,000. F, Georgia marble for street facades including interior stone work, $937,000. G, for entire work, Georgia marble for street facades, using either Georgia or Dorset for the interior, $1,162,000.

Blue Ridge Marble Co., Nelson, Ga.—Bid D, Georgia marble, Bedford limestone, $1,080,000. E, Georgia marble for entire work, $1,180,000.

Thomas Reilly, 1616 Thompson St., Philadelphia, Pa.—Bid A, Milford granite from Webb Pink Granite Co., Bedford quarry limestone and Georgia marble for the interior vestibules, $1,194,714. B, for entire work, Georgia marble for interior work, $1,168,675. D, for entire work, Vermont marble, Bedford limestone, $1,100,000. Entire work, using Vermont marble from Columbia quarry, $1,208,000. G, entire work, using Bedford limestone and Vermont marble for interior work, $748,000.

Booth Bros. and Hurricane Isle Garnite Co., 207 Broadway, New York City.—Bid A, Fox Island granite, Bedford limestone, South Dover marble for interior work, $1,010,000. If Maine white granite is substituted for Fox Island granite, add $40,000 to the above price. B, Fox Island granite, South Dover marble for interior work, $1,110,000. If Maine white granite is substituted for Fox Island granite, add $60,000. C, street facades, Fox Island granite, South Dover marble for interior, $873,000. If Maine white granite is substituted for Fox Island granite, add $40,000. H, court facades, using Bedford limestone, $143,000.

Furst & Fanning, 73 Hawthorne St., Chicago, Ill.—Bid G, entire work, using Bedford limestone and Vermont marble for interior, sample B, $763,000. H, court facades, using Indiana limestone, $159,800. In case marble from Proctor quarries is used in place of Rutland marble, deduct $7,000.

Vermont Marble Co., Proctor, Vt.—Bid A, Vermont marble, street facades, using granite from the New England Granite Co., for base on street facades, and Bedford quarries limestone for court facades, white marble for interior vestibules, $1,048,000. B, entire work, Vermont marble, limestone from Bedford quarries for court facades, New England granite for base and white marble for interior stone work, $1,052,000. C, white marble for street facades, New England granite for base of street facades, white marble for interior, $910,000. E, entire work, white marble, $1,204,000. F, for street facades, interior stone work and vestibules, white marble, $928. G, entire work, using marble for street facades and vestibules, white marble for court facades, and granite from New England Granite Co. for base on street facades, $1,029,000. H, entire work, Vermont marble, same for interior stone work, and using same for court facades, $1,141,000.

Broderick & Wind Engineering Co., 1 Madison Ave., New York City.—Bid D, Alabama marble, Gautts quarry, town of Sylacauga, same for street facades and P. M. B. limestone for court facades, $1,057,300. E, for interior work, using same marble, $1,196,500. F, for street facades and interior work, same marble, $897,300.

B. A. & G. N. Williams, 5 East 42d St., New York City.—Bid A, entire work, Georgia marble, P. M. B. for the court facades, $1,074,000. D, South Dover marble for street facades and interior stone work, P. M. B. for court facades, $1,124,000.

Contracts for street facades and vestibules only, was awarded to the VERMONT MARBLE CO., for $910,000. The contract for court facades only was awarded to WM. BRADLEY & SON, for $136,690.

WINCHESTER, VA.—Barney & Chapman, Archs., 520 Fifth Ave., New York City, are preparing plans for a $100,000 library for this city. Previously noted.

RALEIGH, N. C.—Chas. K. Bryant, Arch., Richmond, Va., has plans ready for bids for an eight-story masonic temple and office building.

ATLANTA, GA.—Geo. Winship will build an apartment house at 191-7 Ivy St., at a cost of $40,000.

JACKSONVILLE, FLA.—The Westmoreland Hotel will be enlarged to double its present capacity.

MARIANNA, FLA.—The contract for the erection of a new court house has been awarded to M. D. LUMEN & CO., of Louisville, Ky., for $46,625.

BIRMINGHAM, ALA.—A three-story brick business house will be erected by W. I. Brubbs at a cost of $30,000.

HATTIESBURG, MISS.—A six-story business house will be erected here at a cost of $115,000. J. P. Carter can give information.

NEW ORLEANS, LA.—Bids will be received until Oct. 25 for the erection of the Y. M. C. A. auditorium. Chas. Godchaux, Chn. Bldg. Com., Godchaux Bldg.; Stone Bros. and Emile Weil, Assoc. Archs.

NASHVILLE, TENN.—The McKendree M. E. church will be erected at a cost of $100,000.

CHATTANOOGA, TENN.—The Southern Ry. Co. will erect a passenger station here, at a cost of $500,000. Work to begin about Jan. 1.

LOUISVILLE, KY.—L. & S. Jones, Louisville, are taking figures on an office building to be erected in Louisville, from plans by F. M. Andrews, of Dayton, O. Brick and stone, 9 stories, 75 x 120 ft.

LOUISVILLE, KY.—McDonald & Dodd, Archs., will award contract, Oct. 15, for an addition to the Presbyterian Theological Seminary. Cost, $75,000. (Previously noted.)

DAYTON, O.—Peters, Burns & Pretzinger, Archs., have prepared plans and will take figures for a church for the First English Lutheran Congregation. Cost, about $90,000.

YOUNGSTOWN, O.—The Building Committee of the Board of Education has been instructed to reject all bids for Myrtle Ave. School building, and advertise for new bids. W. N. Ashbaugh, Clk.

CLEVELAND, O. — Hubbell & Benes, Archs., Citizens' Bldg., have completed plans for private school building, to be erected on North Logan Ave., for the Hathaway, Brown and Laurel Institute, Samuel Mather, member of committee, Western Reserve Bldg. Est. cost, $70,000.

CINCINNATI, O.—Plans for the new Ohio Mechanics' Institute are being prepared by Samuel Hannaford & Sons, Archs. Brick, 5 stories, 180 x 223 ft.

FORT WAYNE, IND.—Bids are asked by J. L. Smith, County Audr., until 10 a. m., Oct. 25 for building an insane ward, engine house, boiler house and laundry, plumbing and heating at the Allen County Asylum; also for a steam heating plant at the Allen County Orphans' Home.

SOUTH BEND, IND.—Bids are asked by John W. Harbou, County Audr., until Oct. 25, 10 a. m., for the plumbing, direct and indirect steam heating, electric wiring and electric light fixtures for new County Infirmary building.

PERU, IND.—County Commissioners will on Oct. 19, receive competitive plans and adopt plans, profiles, and specifications for construction of a court house. C. W. Macy, County Audr.

MUNCIE, IND.—Contract for construction of U. S. public building at Muncie, has been awarded to MORROW & MORROW, of Muncie, at $52,115, plus for alternate M, fireproof ceiling, $2,109, and alternate O, changes in main cornice, $280.

INDIANAPOLIS, IND.—Albert Gall has ordered plans for a six-story business building in East Washington St. Bids will be in order soon.

INDIANAPOLIS, IND.—The White City Co., W. H. Lobb, Pres., will soon ask for bids for the construction of a hotel, club-house, gymnasium and other buildings for an amusement resort at Broad Ripple.

SPRINGFIELD, ILL.—S. J. Hanes, Arch., 205½ South Sixth St., has plans ready for figures for a seven-story bank and office building. Cost, $100,000.

W. H. Conway, Arch., is preparing plans and will be ready for bids in about 60 days for a seven-story hotel addition, 50 x 100 ft., John McCreery. Cost, $100,000.

CHICAGO, ILL.—Holabird & Roche, Archs., 100 Jackson Blvd., Chicago, are preparing plans for a mercantile building, to be erected at 551-3 Wabash Ave., for Mrs. M. A. Ryerson, Mill construction, 6 stories, 40 x 165 ft. Cost, $80,000.

D. H. Burnham & Co., Archs., 9 Jackson Blvd., are taking figures for a warehouse, to be erected on North Water St., for the Vermont Marble Co., 558 North Water St. Cost, $100,000.

Bishop & Co., Archs., 113 Adams St., are preparing plans for an apartment house to be erected at 51st and Indiana Sts., for A. O'Donnell. Cost, $50,000.

MAUSTON, WIS.—The plan of erecting a city hall and armory has been abandoned, owing to the fact that the lowest bid was nearly double the amount voted.

ST. PAUL, MINN.—Reed & Stem, 601 Endicott Bldg., have been appointed architects for new $350,000 auditorium, to be erected at Franklin, Fourth and Fifth Sts.

MINNEAPOLIS, MINN.—Kees & Colburn, Archs., 602 Kasota Block, have plans for a sanitarium, to be erected on University Ave. Cost, $80,000.

MARION, KAN.—Sealed proposals will be received by County Commissioners until Nov. 9 for the erection of a court house at Marion. J. C. Holland & Squires, Archs., Topeka, Kan.; D. M. McIntosh, County Clk.

FORT LEAVENWORTH, KAN. — Sealed proposals will be received by Capt. J. E. Normoyle, Q. M., until 11 a. m., Oct. 27 for construction of five double sets of lieutenants' quarters, including plumbing, heating and electric wiring at Fort Leavenworth.

LITTLE ROCK, ARK.—The Southwestern Telegraph & Telephone Co. will erect a new building at a cost of $50,000. T. L. Powell is Supt.

TEMPLE, TEX. — The Gulf, Colorado & Santa Fe R. R. Co. will erect a hospital here at a cost of $50,000. Sanquinet & Staats, of Fort Worth, are Archs.

HEMPHILL, TEX.—An election will be held Nov. 7 to decide the question of issuing $30,000 in bonds for the erection of a new court house. Address the County Clerk.

PORTLAND, ORE.—A building permit has been issued to Chas. Sweeney for a $60,000 building to be erected at Seventh and Morrison Sts.

It is stated that a five-story office building is soon to be erected for the Portland General Electric Co., to cost about $100,000.

PALO ALTO, CAL.—The Board of Trade Committee has agreed upon a site at Kellogg Ave. and Waverly St., for the new tourist hotel. Cost, $120,000.

WATER SUPPLY—IRRIGATION.

The names of parties awarded contracts are printed in capital letters.

POWNAL, VT.—We are advised that construction of water-works at this place, mentioned in our last week's issue, is being done by day labor; pipe has been ordered. D. T. Bates is Des. Engr.; G. T. Parker, Treas.

HYANNIS, MASS.—Local fire district is to petition legislature to allow it to issue bonds to install water-works, to cost about $40,000. Committee, J. C. Sears and E. A. Baxter are in charge.

OXFORD, MASS.—Oxford Water Co., Byron Clark, Clk., is stated to be taking steps to install its proposed water-works.

WATERBURY, CONN.—Bids are asked by Board Public Works until 4 p. m., Oct. 17, for laying water mains in Aurora St. and part of Bunker Hill Road. R. A. Cairns, Cy. Engr.

LOWELL, MASS.—We are informed that action is pending regarding application of Atherton Mills, of Tewksbury, for a 2,000-ft. extension of 6-in. pipe. We are also advised that the city is in the market for 60 tons of 6-in. water pipe. R. J. Thomas, Supt. W. W., is official in charge.

TROY, N. Y.—Board Contract and Supply has awarded contract for cleaning and grubbing Tomhannock reservoir site to RICHARD WARD for $16,770. Contract for cleaning canal was also let to above party at $2,280. Bids were opened Sept. 26.

NEW YORK, N. Y.—Bids are asked by John T. Oakley, Comr. Water Supply, Gas and Electricity, until 2 p. m., Oct. 18, for hauling, laying and relaying water mains in 233d St., between Jefferson Ave. and the Bronx River.

NEW YORK, N. Y.—Bids are asked by John T. Oakley, Comr. Water Supply, Gas and Electricity, until 2 p. m., Oct. 25, for furnishing constructing and installing five electrically-driven pumps, with all appliances complete, for high-pressure fire service, in a pumping station to be erected on the northwest corner of Gansevoort and West Sts., Borough of Manhattan; also, for furnishing, constructing and installing five electrically-driven pumps, with all appliances complete, for high-pressure fire service, in a pumping station to be erected on the northwest corner of Oliver and South Sts., Borough of Manhattan.

STONY BROOK, N. Y.—Bellman & Sanford, 149 Broadway, New York, are stated to have applied for franchise here for a water and gas plant.

LAKEWOOD, N. Y.—Bids were opened Oct. 9 by this village, R. H. Maxson, Village Clk., for constructing water-works, the contract for furnishing and constructing entire plant being awarded to ELLERY COLBY, Owego, N. Y., for $22,730. Ludlow valves and hydrants are to be used, and U. S. Cast Iron Pipe & Foundry Co.'s pipe.

ORANGE, N. J.—Date f[illegible]pening bids for building reservoir and cas[illegible] water mains for this city has been ex[illegible] from Oct. 9 to Oct. 23 as is stated [illegible] advertising columns.

PLAINFIELD, N. J.—[illegible] November election on ma[illegible] will vote at municipal water-works. [illegible] feasibility of this purpose was to ha[illegible] election for 26, but was called off ow[illegible] held Sept. [illegible] legal technicality.

SEA ISLE CITY, N. [illegible] Residents of Townsend Inlet are askin[illegible] Sea Isle City Water Co. extend its mai[illegible] that place.

PHILADELPHIA, PA.—[illegible]coln Acker, Dir. Pub. Wks., has aw[illegible] contract for pumping out Torresdale [illegible] to D. OLIER ENGINEERING CO., for $[illegible] Bids were opened Oct. 3.

WASHINGTON, D. C.—[illegible]retary of the Interior has again aw[illegible] contracts for the construction of Divisio[illegible] and 3, main canal, Huntley Irriga[illegible] Project, Montana, as follows: Division 1, [illegible]TON BROS. & CO., Oakland, Cal.; Di[illegible] 2, W. D. LOVELL, Minneapolis, Min[illegible] Division 3, CALLAHAN BROS., PHEL[illegible] SHIRLEY, Omaha, Neb.

RICHMOND, VA.—Bids are [illegible] by Chas. E. Bolling, Supt. W. W., un[illegible] p. m., Oct. 16, for the construction of [illegible] reinforced concrete conduit, about on[illegible] long, with pipe connections. (Advert[illegible] Engineering News.)

FRANKLIN, VA.—City [illegible] Oct. 14 on $40,000 bond issue to be us[illegible] installing water-works and sewers.

PARKERSBURG, W. VA.—[illegible] may vote this fall on bond issue for n[illegible] water-works.

GREENSBORO, N. C.—Bids [illegible] asked by Water and Light Commissio[illegible] W. T. Sergeant, Chn., until 8 p. m., O[illegible] 16, for constructing a water conduit; [illegible] of proposed work is 5.83 miles, gra[illegible] system, in which length 18-in., 20-in. and 24-in. sizes of water pipe will be used; also 1.01 miles of 20-in. force main; also for construction of a 20,000,000-gallon reservoir. J. M. Bandy, Engr., Greensboro, N. C.

PENSACOLA, FLA.—Bids are asked by Bureau Supplies and Accounts, Navy Department, Washington, D. C., until 10 a. m., Oct. 31 for tools and superintendence necessary for driving test wells at Pensacola Navy Yard.

MERIDIAN, MISS.—City, according to reports, is to institute quo warranto proceedings in order to revoke the charter of the Meridian Water-Works Co. to enable it to go ahead with municipal improvements decided upon a year ago.

ABBEVILLE, LA.—We are advised that proposed new water-works and sewers will cost $40,000. Water-works supply is to be from well, and pipe, pumps, sewer pipe, etc., will be required. W. McIntosh is Des. Engr., and official in charge. J. R. Leguenec is Mayor.

OAK HARBOR, O.—City will vote on water-works at November election.

BATTLE CREEK, MICH. — Council has been considering ordinance to submit to vote of taxpayers question of bonding for $250,000 for securing new water supply from Verona Wells. W. W. Brigden is Supt. W.-W.

CHICAGO, ILL.—Following bids were opened Oct. 4 by Board Public Works for furnishing boilers for Lakeview pumping station, (1) Green, (2) Hawley, (3) concrete for foundation: Thos. F. Pickham, 53 West 14th Pl., Chicago; (1) $49,449, (2) $53,311 (if Bundy boiler add $3,164), (3) $8; J. G. O'Neil, The Rookery, Chicago, (1) $46,126, (2) $47,126 (S and S), $46,126, (3) 34 cts.; John Mohr & Sons, 32 Illinois St., Chicago, (1) $46,642, (2) $47,314, (Jones underfed) $46,300, (3) $7.

NEWARK, O.—Contract for constructing water-works for this city (bids opened Sept. 30) is reported to have been let to AMERICAN LIGHT & WATER CO., Kansas City, Mo., for $267,000. A direct pressure system with 25 miles of pipe will be installed. It is also said that another 25 miles of pipe will be laid if city votes favorably on a $300,000 bond issue. Frank T. Maurath is Clk. Bd. Pub. Serv.

TOLEDO, O.—Bids are asked by Board Public Service, Harry Jones, Secy., until Nov. 6 for construction of Sec. No. 1 of the filtered water conduit, under Contract No. 2 for the improvement of water supply. Bids will also be opened on the same date for constructing Sec. No. 2 of the filtered water conduit, under Contract No. 3. Chas. L. Parmelee, Consult. Engr., 136 Liberty St., New York. (Advertised, Engineering News.)

HUNTINGTON, IND.—No bids were received Oct. 2 by A. F. Becker, Cy. Clk., for constructing intake for new water-works lake. Water-work Committee has been authorized to have the intake constructed.

COLUMBUS, IND.—We are advised that no bids were received Oct. 5 for constructing wooden infiltration gallery, and owing to the lateness of the season action has been postponed until next year. Geo. Vorwald, Cy. Clk.

FORT WAYNE, IND.—D. W. Mead, First National Bank Bldg., Chicago, Ill., is stated to have prepared plans and specifications for the reconstruction and extension of the city water-works. Edward White is Pres. Bd. W. W. Trus.

REPUBLIC, MICH.—Township has bonded for $25,000 for installing water-works, and is reported to have let contract to MICHIGAN PIPE CO., Bay City, Mich.

TRAVERSE CITY, MICH.—Construction of water mains, at a cost of $6,000, is said to be under consideration. H. O. Joynt is Supt. W. W.

ARLINGTON HEIGHTS, ILL.—We are advised that none of the bids received Sept. 12 for extending village water system were accepted. New bids are being taken until Oct. 18. Henry C. Klehm is Pres. Trus.; H. L. Emerson, Room 1311 Chamber of Commerce Bldg., Chicago, Ill., was Engr.

WAUKEGAN, ILL.—Bids were opened Sept. 29 by Board Public Works, M. R. Miller,

Supt., for construction of water mains and appurtenances, contracts being let as follows: North Bertrick St., J. M. HEALY, Champaign, Ill., $4,577; Grand Ave., L. M. McDONOUGH, Waukegan, Ill., $1,929; Washburn Special District, J. M. HEALY, $2,993; Southwest St. and Kennard St., W. J. ALLEN, Waukegan, Ill., $1,117.

MADRID, IA.—Bids are asked by C. S. Adams, Town Clk., until 3 p. m., Oct. 18, for 1½ miles of pipe, 16 hydrants, gasoline engine, 120-ft. tower, and 50,000-gallon tank. Burns & McDonnell, Engrs., Kansas City, Mo.

FERGUS FALLS, MIN.—City has voted to issue $80,000 of bonds for buying old water-works or erecting new plant.

KANSAS CITY, KAN.—Council franchise committee has prepared a report on the ordinance granting the Metropolitan Water Co. a new 30 year franchise. The new franchise will call for a new pumping station at Quindaro, and for increased settling basin capacity and 18½ miles of new mains.

BASSETT, NEB.—Bids are asked by Village Board, W. J. Tillotson, Chn., until 8 p. m., Oct. 30, for furnishing material and constructing water-works. W. T. Phillips, Village Clk.

BELLE FOURCHE, S. DAK.—Drawings and specifications for the construction of dam and distribution canals, Belle Fourche Project, South Dakota, may be seen at office of Engineering News, 220 Broadway, New York. Bids are asked until Oct. 26, as advertised in Engineering News.

SHOHONE, WYO. — Following bids were opened Oct. 3 at office of Indian Affairs, Washington, D. C., for construction of water and sewer system at Shoshone School, Wyo.: W. H. Dickinson, Shoshone, Wyo., $20,440; W. D. Lovell, Minneapolis, Minn., $20,975, $19,725, $17,524, $16,342, $15,242.

HAMILTON, MONT.—Woodside Irrigation Co., capitalized at $6,000, has been incorporated by W. S. Burrell and W. H. Pierce.

BILLINGS, MONT.—Drawings and specifications for the construction of the Lower Yellowstone Dam, Fort Buford Project, North Dakota and Montana, may be seen at office Engineering News, 220 Broadway, New York. Bids are asked until Dec. 5, as advertised in Engineering News.

ST. LOUIS, MO.—General Service & Development Co. has accepted the terms of its franchise granted by the County Court. The company owns an electric plant at Brentwood and recently purchased the electric plant and contracts of the West St. Louis Water & Light Co., which is supplying a part of St. Louis County.

ORONOGO, MO.—Contract for putting in water plant for this city is stated to have meen let to SOUTHWESTERN MACHINERY CO., Webb City, Mo.

OSCEOLA, ARK.—W. J. Driver, L. A. Morris and C. H. Gaylord have been appointed committee to secure water-works for this city. A $25,000 bond issue will probably be made.

AUSTIN, TEX.—American Rio Grande Land & Irrigation Co., capitalized at $1,250,000, has filed its charter. It is proposed to place 125,000 acres of land situated in the Valley of the Rio Grande under irrigation. Among those interested are B. F. Yoakum, of the St. Louis & San Francisco R. R., St. Louis, Mo.; Duval West, San Antonio, Tex.; and S. P. Silver, Hidalgo, Tex. Chester B. Davis, Dallas, Tex., is reported to be the Engr.

ORANGE, TEX.—Orange Ice, Light & Water Co., capitalized at $60,000, has been incorporated by W. H. Stark, Sam C. Trimble and J. W. Link.

FLORESVILLE, TEX.—We are advised that date for opening bids for boiler, heater, pump, etc., has been postponed from Sept. 28 to Oct. 16. M. Griffin O'Neil, Engr., Dallas, Tex. The advertisement appeared in our issue of Sept. 14 and 21.

SAN ANGELO, TEX.—Town will issue $30,000 of bonds for establishing water-works.

OKLAHOMA CITY, OKLA.—Council water committee has reported in favor of calling an election to vote on a $450,000 bond issue for the construction of adequate water and sewer systems.

LEHIGH, IND. T.—This place and Atoka are considering building a joint water system.

WAPANUCKA, IND. T.—Local reports state that this place wants water-works and electric lights and invites capitalists to look into the proposition.

LITTLETON, COLO.—A recent decision of the District Court confirms the $1,100,000 bond issue voted last January by the High Line Irrigation District. It was proposed to spend $375,000 of the bond proceeds for purchase of the High Line Canal, and $725,000 for building a storage reservoir and feeder canal up Platte Canon.

DENVER, COLO.—Bids asked by U. S. Reclamation Service, Denver, until 2 p. m., Nov. 8, for the construction of about 50 miles of main canal, involving about 3,000,000 cu. yds. of earthwork and 130,000 cu. yds. rock-work, for the irrigation of lands in the North Platte Valley in eastern Wyoming and western Nebraska. (Advertised, Engineering News.)

COLORADO SPRINGS, COLO. — Animas Power & Water Co., capitalized at $3,000,000, has been incorporated to operate in San Juan County. Company proposes to construct dams, canals, reservoirs, etc. Head office is to be at Colorado Springs. Leonard E. Curtis, Henry Himes and O. B. Willcox are incorporators.

WALLA WALLA, WASH.—R. H. Thomson, Hydr. Engr., Seattle, Wash., has reported to city on cost of a water supply from Mill Creek. Cost of entire system would be $246,750, and it is recommended that $235,000 of this amount be raised by a bond issue. Estimate provides for a 13¾ mile long, 20-in. pipe line.

DRAIN, ORE.—Formation of company to supply town with water is under consideration.

ROSEBURG, ORE.—City has voted $200,000 of bonds for municipal ownership of water and lights.

SAINT JOHNS, ORE.—Council is taking steps for erection of water-works.

INDEPENDENCE, ORE. — G. N. Miller, Engr., has reported to Mayor and Council on gravity water systems for the city. Cost, according to the report, would be $35,000.

ANAHEIM, CAL.—Election may be held to vote on bond issue for improving water-works and electric light plant at a cost of $60,000.

SAN BERNARDINO, CAL.—Stockholders of Bear Valley Extension Water & Pipe Line Co., will meet Oct. 20 at Farmers' Exchange Bank, San Bernardino, to act on a proposition for constructing a new pipe line.

SEBASTOPOL, CAL.—Bids are asked by H. B. Morris, Pres. Bd. of Trustees, until 8 p. m., Oct. 17 for the construction of a water-works system, a sewer system and a town jail.

WHITTIER, CAL. — City Council has awarded contract for furnishing steel pipe for city water-works to LACY MFG. CO., for about $22,000.

LINDEN, CAL.—We are advised that CLARK & HENERY, Stockton, Cal., have contract at $8 per cu. yd. of concrete in place for extensions of Calavaras River Land & Irrigation Co. Work consists of concrete dam, 160 ft. long, 15 ft. wide and 4 ft. high, across the Calavaras River. Three headgates, 3 × 4 ft. each, are to be erected, and dam is to be raised at low water by flush boards. Capacity of flume and ditch 500,000 gallons per minute. D. W. Miller is Mgr. and official in charge.

SALT LAKE CITY, UTAH.—Following applications for water rights have been filed with the State Engineer: Patrick J. McGeery and Edward A. M. Clement, Vernal, Utah, 4 second ft. water form the Green River, to be conveyed by means of a 10-mile canal; Pastilda Grabel, of Rocliffe, Colo., and William Bruenick, of Aspen, Colo., 4 second ft. from Duchesne River, canal to be 15,840 ft. long; Ernest H. Wilson, of Vernal, Utah, 24 second ft. from Green River, canal to be 15,840 ft. long; Ormel Wilkins, of Vernal, 18 second ft., from Indian Canyon, the diverting works to consist of an earthen dam and a canal 7,000 ft. long.

SALT LAKE CITY, UTAH.—The West Mountain Canal & Irrigation Co. of this city has filed an application for 200 second-feet of water, to be diverted from Utah Lake in Utah County. A pumping plant will be erected by which the water will be pumped into a canal, 28 ft. wide, 7 ft. deep and 105,600 ft. long, and used for irrigating 15,000 acres of land.

MONTPELIER, IDAHO.—City votes Oct. 30 on issuing $22,500 of bonds for installing water-works.

NAMPA, IDAHO.—Special election may be held to vote bonds for extension of water and sewers and construction of city hall.

BOISE, IDAHO.—Nampa & Meridian Irrigation District, Hugh E. McElroy, Secy., Boise, has plans prepared for a $583,500 bond issue. Of this amount $285,000 is to be used for the payment of existing works, and the remainder for enlarging the canal, constructing a reservoir and other improvements. Bids are asked until Nov. 1 for the purchase of $285,000 of the bonds.

SEWERAGE.

The names of parties awarded contracts are printed in capital letters.

DOVER, N. H.—Street and Park Commission has awarded contract for sewer to Wentworth Home to MICHAEL McKONE for $2,862.

LENOX, MASS.—Town votes $100 for surveys and estimates for sewers and filtration bed for Lenoxdale.

WALTHAM, MASS.—Plans are reported to have been completed for laying the Roberts sewer. Work will require about 4,000 ft. of earth pipe and 2,000 ft. of iron pipe. Bertram Brewer is Cy. Engr. and Supt. Sewers.

PUTNAM, CONN.—Council is reported to have voted to construct a sewer system. Beginning of the work will soon be commenced on the plans suggested by Charles E. Chandler, Engr., Norwich, Conn.

HARTFORD, CONN.—We are informed that nothing will be done about the construction of the Windsor Ave. sewer system, mentioned in our last issue, until next year. Bids for the work will not be received before the latter part of the winter or the early part of the spring. F. L. Ford is Cy. Engr.

HAMBURG, N. Y.—Village Board is to lay sewer in Union St., between Center St. and Lake.

MOHAWK, N. Y.—Village voted Sept. 29 to construct sewer system.

ALBANY, N. Y.—Board Contract and Supply has awarded contract for laying 20-in. pipe sewer in Steuben and Elk Sts. to CAMERON-HAWN REALTY CO., for $5,722. Same company was awarded contract for brick and reinforced concrete sewer between Western Ave. and Chestnut St. for $6,690.

TROY, N. Y.—Bids are asked by Board Contract and Supply, James M. Riley, Clk., until 11 a. m., Oct. 17, for constructing salt-glazed vitrified drain pipe in Maple Ave. Sewer is to be 950 ft. long of 27-in. pipe, four manholes, two catchbasins, and 36 laterals, each 14 ft. long of 8-in. pipe.

MOUNT MORRIS, N. Y.—We are advised that village on Oct. 2 voted against construction of sewer system.

WARREN, N. Y.—This village, according to reports, is to expend $8,000 this fall in construction of sewers.

PLAINFIELD, N. J.—Bids are asked until 8 p. m., Nov. 6, for constructing 568 ft., 36-in. × 48-in. concrete sewers, manholes, branches, etc. J. T. MacMurray, Cy. Clk. Andrew J. Gavett, Cy. Surv. (Advertised, Engineering News.)

NEWTON, N. J.—Town Committee on Oct. 3 awarded contract for sewage purification plant to HINMAN & SPROUL, Schenectady, N. Y., for $29,618.

SOUTH ORANGE, N. J.—Sewer system is to be constructed in Maplewood section of this township, an ordinance to that effect having been before council. Geo. E. Low is drawing the plans.

IRVINGTON, N. J.—Town Council is considering extension of lateral sewer system.

PERTH AMBOY, N. J.—Bids are asked by the Council until 8.30 p. m., Oct. 16, for construction of a 24-in. saltglazed vitrified clay pipe sewer in Sayre Ave. and Mattano Pl. Work requires 1,700 ft. sewer pipe with 103 6-in. taps, eight brick manholes and four standard catch basins; average cut is 12 ft. 5 ins. Wm. H. Fullerton, St. Comr.

WOODSTOWN, N. J.—Woodstown Sewer Co., capitalized at $25,000, has been incorporated to operate a sewer system in this borough Allen J. Davis, Reeves Flitcraft, and E. W. Humphreys, all of Woodstown, are interested.

HADDONFIELD, N. J.—We are advised that the contract for the construction of about two miles of pipe sewers was awarded to S. L. Bartholomew, Asbury, N. J., on the percentage basis. The contractor is to superintend the work, furnish all the tools and machinery, and is to receive 12% of the cost if it goes no higher than the engineer's estimate, which is $17,222. If the cost is more than this amount, he is to receive no percentage on the excess. We are also advised that tenders for materials, for the sewers, will be received by Mayor J. Morris Roberts. Among the materials taken from the specifications required are: 8,375 ft. 8-in. pipe in trench; 500 ft. 10-in. pipe in trench; 100 ft. 12-in. pipe in trench; 300 ft. 8-in. t. c. flush plugged Y-branches; 30 10-in. t. c. flush plugged Y-branches; 500 ft. 4-in. drain tile underdrain; 1,900 ft. 8-in. c. i. pipe; flush tanks, manholes, etc. A full list of the materials required can be seen at office of Engineering News. W. W. Young, Engr.

WEST HAZELTON, PA.—Borough Surveyor is to make plans for sewer to extend from Madison Ave. along Allen, and across Fifth and Oak Sts.

BALTIMORE, MD.—Ordinances have been before Council to appropriate $9,000 for sewer in 23d St., and $9,000 for sewer in Ridgely St.

NORFOLK, VA.—We are advised that plans for sewerage work in 7th Ward are incomplete; matter has not been determined on, nor appropriation made. W. T. Brooke is Cy. Engr.

RICHMOND, VA.—Bids are asked by W. E. Cutshaw, Cy. Engr., until 4 p. m., Oct. 16, for constructing brick or reinforced concrete sewers in the Boulevard and branches in cross streets.

LEXINGTON, N. C.—Town has voted to issue $40,000 of bonds for completion of sewerage, water-works, and paving; a $60,000 bond issue for the work was voted some time ago.

SPENCER, N. C.—Aldermen are stated to have awarded contract amounting to about $35,000 to MARKLEY & CO., Roanoke, Va., for sewers and street improvements.

JACKSONVILLE, FLA.—City is reported to have voted $210,000 for sewerage and drainage.

CHATTANOOGA, TENN.—Bids are asked by A. L. Thomas, Chn. Bd. Pub. Wks., until 2.30 p. m., Nov. 7, for the construction of certain brick and pipe sewers and appurtenances. Robt. Hooke, Cy. Engr. (Advertised, Engineering News.)

ASHLAND, KY.—Council committee has recommended construction of an $18,000 trunk sewer, to be built of brick, concrete and tile.

GEORGETOWN, KY.—Contract for sewer system here has been let to JOHN B. GRAVES for $25,150.

BARBERTON, O.—Council has been considering reconstruction of main sanitary sewer in Second St., at an est. cost of $7,860.

CHAGRIN FALLS, O.—The Mayor writes us that a vote will be taken Oct. 23 for putting in a sewerage plant. Engineer had not been engaged.

CANTON, O.—Bids are asked by Board Public Service, C. A. Zellers, Clk., until noon, Oct. 18, for constructing short storm water sewer; also for sanitary sewer in Fulton St. and storm water sewer in Hurford St.

DELAWARE, O.—Contract for installing Railroad St. ditch have been awarded as follows: Sewer pipe and connections, DELAWARE CLAY MFG. CO., $4,915; excavation, manholes, backfilling, etc., J. F. GANTZ, $3,328.

GLENDALE, O.—Bids are reported asked by J. G. Gutting, Village Clk., until Nov. 6 for construction of 2,100 ft. of sewer in Oak Ave. and 1,600 ft. of sewer in Sharon Ave.

SPRINGFIELD, O.—Council Committee is considering construction of several sewers, one of these in North St. It is also stated that a $225,000 bond issue for a new sanitary sewer system will be voted on again at the fall election.

PIQUA, O.—Board Public Service has awarded contract for sewers in Broadway and Camp Sts. to JOHN SHANNON, Piqua, for $3,147.

WAUSEON, O.—Bids are asked by A. S. Bloomer, Village Clk., until Oct. 23 for constructing sewers in portions of four streets.

NAPOLEON, O.—Bids are asked until noon, Nov. 6, for constructing sewers. Fred. W. Hilgendorff, Village Clk.

MITCHELL, IND.—Matter of constructing water-works and sewerage will be taken up at the next election, and city is said to desire estimates on cost of constructing such improvements. Ed. C. Tirey is Cy. Clk.

MICHIGAN CITY, IND.—City Civil Engineer Miles has been directed to prepare a topographical map of the south part of the city showing the most feasible system of drainage and the size of the sewers required. This is the first step preliminary to the construction of a large trunk system for that section.

SOUTH BEND, IND.—Contract for constructing 435 lin. ft. 24-in. pipe sewer has been let to L. H. WEBSTER, South Bend, for $1,035.

A. J. Hammond, Cy. Engr., is to prepare plans and specifications for an intercepting trunk sewer for the business district. Bids are to be asked soon, according to reports.

BELDING, MICH.—Bids are asked by Wm. E. Fisher, Cy. Clk., until Oct. 23 for furnishing all labor, tools and material, except pipe, and building main sewers in several streets.

GROSSE POINTE FARMS, MICH.—Bids are asked by J. G. Armstrong, Village Clk., until noon Nov. 4 for laying about 1,800 lin. ft. of sewer pipe in Kerby Road. French & Russell, Engrs., 505 Moffat Bldg., Detroit, Mich.

FAIRVIEW, MICH.—Contract for building sewer in Kercheval Ave. has been awarded to J. T. HEALEY, for $23,000.

HIGHLAND PARK, MICH.—Village has voted $8,000 for continuation of sewer system.

EAST ST. LOUIS, ILL.—Council has passed ordinances calling for 1,310 ft. of sewer in 9th St., and 1,810 ft. of sewer in St. Clair Ave. W. J. Crocker is Cy. Engr.; Mayor Silas Cook is Pres. Bd. Local Improvements.

EAST ST. LOUIS, ILL.—An ordinance has been before City Council for building an outlet sewer to cost $758,000. The ordinance provides for the construction of an outlet sewer, which will take care of all of the city sewage, and also provides for a pumping station. W. J. Crocker is Cy. Engr.

SHELDON, IA.—Bids are asked by G. T. Wellman, Cy. Clk., until noon Dec. 11 for furnishing material and constructing sewers and sewage disposal works. Sewers consist of about 3,870 ft. 8-in., 670 ft. 12-in. and 5,864 ft. 15-in. pipe sewer. Disposal works consist of septic tank and sand filter beds.

CLINTON, IA.—We are informed that new bids will be called on Oct. 25 for about four miles of reinforced concrete brick and pipe sewers, 2 ft. to 10 ft. in diameter. Chas. P. Chase, of the Iowa Engineering Co., is Cy. Engr.

ST. PAUL, MINN.—Board Public Works has rejected bids for construction of sewer on north side of University Ave. Lowest bid, $4,419, was $1,200 above engineer's estimate.

WINFIELD, KAN.—Special council committee is working on preliminary plans for spending $10,000 for improving sewer system.

HORTON, KAN.—Council is considering installation of sewer system.

NORTH PLATTE, NEB.—We are advised that bids will be received again on Oct. 27 for constructing sewer mains. The grades of the sewers will be raised 2 ft. or more. Chas. Samelson, Cy. Clk. Bids were to have been opened Oct. 3, as was stated in our issue of Sept. 14.

NORFOLK, NEB.—We are advised that city has secured plans and estimates for sewer system. No steps had been taken toward awarding contract. Andrew Rosewater, Omaha, Neb., is Des. Engr. John Friday is Mayor.

ALBANY, MO.—We are informed that proposition for sewers for this city was voted down, and the matter will, perhaps, rest until next spring. R. M. McCammon is Mayor.

WEBB CITY, MO.—Bids are asked by W. E. Smith, Cy. Engr., until 5 p. m., Oct. 16, for constructing 1,710 ft. 8-in. pipe sewer, 110 6-in. of branches, 2 lampholes, 4 manholes and 1 flush tank.

ARKADELPHIA, ARK.—Construction of new sewer system here is advocated.

JONESBORO, ARK.—Plans will probably be completed by Oct. 15 for building 30 miles of sewers for this city, at a cost of about $100,000. Theo. Hartman, 616 East 7th St., Little Rock, Ark., is Engr.

HOUSTON, TEX.—Westmoreland Sewerage Association, W. C. Connor, Chn., is stated to have awarded contract for sewerage in that section to WILMER WALDO.

NORTH YAKIMA, WASH.—We are advised that City Council at meeting of Sept. 18 passed resolution adopting plans, specifications, etc., for system of trunk sewers, and ordinance calling for election Oct. 12 to vote $48,000 bonds to pay for same. If bonds are voted, bids will be opened Nov. 6. E. McCulloh is Cy. Engr.

SAINT JOHNS, ORE.—Sewerage for this town is reported under consideration.

ESTACADA, ORE.—This town is considering construction of sewer system to cist $5,000.

FRESNO, CAL.—Special election may be held Oct. 31 to vote on sewer bonds.

FRESNO, CAL.—Election will be held here Oct. 31 to vote on issuing $175,000 of bonds for construction of septic tanks and about three miles of ironstone pipe sewers. W. H. Ryan is Cy. Clk.

SAN FRANCISCO, CAL.—Board Public Works has approved city engineer's plans for construction of a sewer in Baker St., between Pacific Ave. and the Bay. Est. cost is $55,000.

SALT LAKE CITY, UTAH.—Bids were opened Oct. 4 by Board Public Works, Geo. W. Riter, Cy. Engr., for construction of extension of gravity outlet sewer and for construction of intercepting sewer and pumping station, the contract for both pieces of work being awarded to JAMES KENNEDY, Fargo, N. Dak., at a total of $177,490. Itemized bids are given under Contract Prices.

GARBAGE DISPOSAL.

The names of parties awarded contracts are printed in capital letters.

NEW YORK, N. Y.—Bids are readvertised, to be received until noon, Oct. 20, for removing snow and ice for Borough of Brooklyn. List of bids received on Oct. 3 was published in Engineering News on Oct. 5. All bids received on Oct. 3 were rejected.

UTICA, N. Y.—Charles I. Williams, who was awarded a 1-year contract for street cleaning on Sept. 18, at $32,781, has transferred his contract to the present city contractor, the HARRY W. ROBERTS CO. Noted on Sept. 28.

NEW ORLEANS, LA.—City Comptroller Kennedy will receive bids for garbage boats.

Fred. Holerith is acting Comr. Public Works Dept.

CHICAGO, ILL.—Richard T. Fox, Supt. Street Cleaning, has submitted plan for municipal crematories to city council. The matter will be passed upon Oct. 13. A 5-year contract for removal of garbage may be let to John Dowdle, who recently submitted the lowest bid for the contract.

LITTLE ROCK, ARK.—The Wagner Refining Co., of Cincinnati, has submitted a garbage-disposal plan to city council which will be acted upon. Estimated cost of plant is from $20,000 to $25,000.

STREETS AND ROADS.

The names of parties awarded contracts are printed in capital letters.

CONCORD, N. H.—Bids were rejected for improving 11 roads. A. W. Dean is State Engr.

CONCORD, N. H.—Bids are asked by A. W. Dean, State Engr., until 5 p. m., Oct. 13, for constructing macadam road in Farmington and gravel roads in Webster, Milton and Rumney.

QUINCY, MASS.—City Council has appropriated $5,000 for grade changes on Hancock St., and passed a loan order of $6,900 for street improvements.

BOSTON, MASS.—Bids were received Oct. 5 by the Boston Transit Commission for repaving State St., as follows: Jas. F. Dooley, $3,721; Coleman Bros., $3,070; J. J. Sullivan, $2,786; John T. Shea, Jr., $2,422; Robt. C. Brown, $2,422; W. J. Rafferty & Co., $2,221; D. J. KILEY, 95 Milk St., $2,174 (awarded contract), all of Boston.

HARTFORD, CONN.—Highway Commissioner Macdonald has awarded contracts for road improvements in the following towns: Farmington, 2,300 ft. of macadam road and 2,600 ft. of Telford, A. C. STERNBERG, of West Hartford; Rocky Hill, 3,600 ft. macadam, A. BRAZOS & SON; South Windsor, 4,133 ft. macadam, THOS. KEARNEY, of Meriden; Bristol, 2,090 ft. macadam and 210 ft. Telford, MARTIN E. PIERSON.

RENSSELAER, N. Y.—Bids are asked by John G. Salt, Cy. Clk., until Oct. 17 for grading, curbing and paving with asphalt a portion of Riverside Ave.

ALBANY, N. Y.—Walter Melius, Cy. Engr., will prepare plans for widening part of Broadway.

NEW YORK, N. Y.—Borough President Ahearn has rejected all bids received Sept. 28 for wood block paving lower Broadway and side streets. He declares the bids were unfair, and that there is evidence of collusion between the various bidders. A complete list of the bids appeared in last issue.

JAMESTOWN, N. Y.—C. G. Jones, Cy. Engr., informs us that bids were opened Sept. 30 for paving about 2,107 sq. yds. with shale brick block and the contract awarded to JAS. MAHONEY for $4,824.

BINGHAMTON, N. Y.—The Common Council will in a few weeks ask for bids for resurfacing a large quantity of the asphalt pavement in this city with either brick or asphalt. D. C. Herrick is Cy. Clk.; S. M. Baird, Cy. Engr.

NEW BERLIN, N. Y.—Town Board has voted to purchase a 10-ton steam road roller.

LITTLE FALLS, N. Y.—S. S. Feeter, Cy. Engr., writes us that all paving has been laid over until next spring.

ALBANY, N. Y.—Common Council will at its next regular meeting to be held Oct. 16, pass an ordinance authorizing the paving of Clinton av. Frederick U. Bresler, Clk.; Walter Melius, Cy. Engr.

ALBANY, N. Y.—MULDERRY BROS., of Albany, have been awarded the contract to pave freight yards of the New York Central R. R. Co. at Auburn and Rochester with granite.

HOBOKEN, N. J.—Bids are asked by Mayor and Council until 8 p. m., Oct. 25, for the improvement of Adams St., between Sixth and Eighth Sts., by grading, curbing and paving with Belgian block. Jas. H. Londrigan, Cy. Clk.

CAPE MAY C. H., N. J.—County Freeholders have ordered their engineer to make plans for the building of new driveway from Sea Isle City to the mainland.

PATERSON, N. J.—JOHN R. LEE was the successful bidder on the contract for asphalting River, Smith and Putnam Sts. Bermuda asphalt will be used and the work is to cost $1.73 per sq. yd.

JERSEY CITY, N. J.—Bids are asked by Board of Chosen Freeholders of Hudson County until 4 p. m., Oct. 19, for the reconstruction and improving of the Newark and New York Turnpike. John P. Egan, Clk.

WASHINGTON, PA.—O. K. Taylor, Jr., Cy. Engr., informs us that the city will pave several streets, 8,800 sq. yds., with brick; est. cost, $16,000.

WILLIAMSPORT, PA.—All bids received for the paving of Washington St. were rejected and new bids will not be asked for until next spring. Jas. F. Fisher is Cy. Engr.

ERIE, PA.—The city is considering the paving of Myrtle St. B. E. Briggs is Cy. Engr.

BRADFORD, PA.—The City Clerk was instructed by Council not to advertise for bids for the paving of High St. and Thompson Ave. until spring.

ALTOONA, PA.—Mayor Walker has signed the following ordinances providing for paving: Eighth Ave., between Fourth and Seventh Sts.; 11th alley, between 14th and 15th Sts.; Lexington Ave., between Third and n Sts., and Second Ave., between Third and Fourth Sts. The first three sections will be done with vitrified paving brick, and the last one with street paving blocks, with moulded edges. Henry Linton is Cy. Engr.

PHILADELPHIA, PA.—JOHN M. MACK has secured the contract for paving of 12 miles of asphalt streets, at $1.50 per sq. yd. The contract will amount to over $300,000.

TOWSON, MD. — The Baltimore County Highway Commission has awarded contract to DOUGLAS, GILMOR & CO., 1031 Calvert Bldg., Baltimore, for repairing Seminary Ave. Cost, $8,000. H. G. Shirley, Engr.

TOWSON, MD.—THE HOOK & FORD CONTRACTING CO., 6 East Lexington St., Baltimore, has contract to repair Warren Road, 4,300 lin. ft.; cost, $14,000.

BALTIMORE, MD.—Roland Park Co., Roland Park, Baltimore, wants bids for about 30,000 yds. of grading. (Advertised, Engineering News.)

RICHMOND, VA.—The committee on finance has authorized an appropriation of $15,000 for paving Park and Grove Aves. with asphalt blocks. W. E. Cutshaw is Cy. Engr.

HUNTINGTON, W. VA.—John H. Sanborn, Cy. Engr., writes us that bids will be received until Oct. 16 for 13,000 sq. yds. brick paving and 6,000 lin. ft. combined concrete curb and gutter.

ALBANY, GA.—It is stated that the city has let to the SOUTHERN CONCRETE CONSTRUCTION CO., of Savannah, the contract for paving with vitrified brick three blocks of Washington St., at a cost of $22,700.

SAVANNAH, GA.—Bids are asked by County Commissioners until Oct. 23 for erecting a reinforced concrete roadway over Casey canal outlet lock. G. Reuben Butler, County Clk.

DECATUR, GA. — The city contemplates calling an election to vote on the issuance of $30,000 of bonds for the improcement of streets and sidewalks, water-works, etc. Howell C. Erwin can give information.

JACKSONVILLE, FLA.—The city will issue $55,000 in bonds for street paving. Philip Prioleau is Cy. Engr.

DANBRIDGE, TENN.—An election will be held Nov. 11 to decide the question of issuing $200,000 bonds for road work. Address the County Clerk for information.

LEXINGTON, KY.—Town has voted the proposed issuance of $5,000 of bonds for improving sidewalks. J. L. Ludlow, Engr., Winston-Salem, N. C. John H. Moyer, Mayor.

PADUCAH, KY.—Plans are being prepared by L. A. Washington, Cy. Engr., for the improvement of several streets.

TOLEDO, O.—Bids are being received by Board Public Service for brick paving on Devarre Ave. Est. cost, $10,000. I. F. Consaul, Cy. Engr.

CINCINNATI, O.—Bids for paving Lytle St. with bitulithic were all rejected by Board Public Service as being too high. New bids will be advertised for.

ASHLAND, O.—Sealed proposals will be received by C. P. Winbigler, Mayor, until Oct. 17 for grading, paving, curbing, etc., of Sandusky St. Also for grading and laying of sidewalks on the south side of Seventh St., and on College Boulevard. F. L. Niederheiser, Engr.

CHILLICOTHE, O.—Sealed bids will be received by Board Public Service until Oct. 16 for constructing a cement sidewalk and curb on Park St. Wm. H. Herrnstein, Clk.

TRENTON, O.—Bids are asked by Louis Brill, Jr., Vil. Clk., until Oct. 19 for cement curbs, gutters and sidewalks on Miami St.

MUNCIE, IND.—City Council has appropriated $5,000 for the repair of streets.

EVANSVILLE, IND.—The Board Public Works has passed a resolution to pave Sixth St. with asphalt and make combined cement curb and gutters.

Geo. E. Kessler, Landscape Arch., St. Louis, Mo., is preparing plans for a park and boulevard system for this city.

EAST CHICAGO, IND.—An ordinance has been passed by City Council providing for the construction of a half a mile of 15 ft. cement walk on Michigan Ave., Indiana Harbor.

SULLIVAN, IND.—Plans are being prepared by Richard L. Bailey, Cy. Engr., for one mile of brick pavement on Washington St. and around the Court House Square. D. Crawley is Cy. Clk.

WINCHESTER, IND.—C. C. Yunker, Cy. Engr., writes us that plans and specifications are being prepared for brick streets which will include about 30,000 sq. yds. of paving. Contracts will be let in the near future.

SOUTH BEND, IND.—We are informed the contract for paving Rex St. with brick has been let to C. H. DEFREES, of South Bend, for $3,376. Bids were opened by Board of Public Works on Oct. 3. A. J. Hammond, Cy. Engr.

MUSKEGON, MICH.—We are informed that the BARBER ASPHALT PAVING CO., of Detroit, received the contracts for paving Irwin, Fourth, Clinton and Jackson Sts., at $1.74 per sq. yd. and 40 cts. per lin. ft. for curb and gutter. The work consists of about 23,124 sq. yds. of waterproof macadam pavement and 15,171 lin. ft. cement curb and gutters. Bids were opened Oct. 2.

GRAND RAPIDS, MICH.—L. W. Anderson, Cy. Engr., writes us that a large amount of paving work is being ordered for next year. Contracts will be awarded early in 1906.

CALUMET, MICH.—It is authentically reported that Sixth St. will be paved with brick next year.

ELGIN, ILL.—An ordinance has been passed by City Council providing for cement walks inside city fire limits. Cost, $5,000.

STERLING, ILL.—The City Engineer has been instructed by Board Local Improvements to secure estimates of the cost of grading, curbing and paving East Third St.

MATTON, ILL.—An ordinance has been passed providing for the improvement of Charleston Ave., between 19th and 21st Sts., by paving with brick, with concrete curb and gutter. Claude L. James, Cy. Engr.

W... TON, ILL.—C. A. Prout, Engr., of Elgin, is preparing plans for grading streets of this village.

LAKE FOREST, ILL.—City Council passed ordinances authorizing the grading, paving with macadam and otherwise improving Westminster, Linden and Illinois Aves.

OAK PARK, ILL.—Bids will be received by Board Local Improvements for constructing 35,828 sq. ft. of concrete sidewalks.

EVANSTON, ILL.—City Council has passed ordinances for macadam paving on sundry streets. Address the President of Board Local Improvements.

DECATUR, ILL.—Bids will be received until 2 p. m., Oct. 16 for paving Powers Ave., 1,494 sq. yds., with asphalt; est. cost, $3,298. Also for paving West Decatur St. and South Haworth Ave., 6,419 sq. yds., with block brick; est. cost, $13,543. A. B. Alexander, Cy. Engr.

EAST ST. LOUIS, ILL.—City Council has passed ordinances authorizing the paving of Ninth St. and St. Clair Ave. with vitrified brick on 6 ins. of concrete, consisting of 5,452 sq. yds. of paving and 2,900 ft. of stone curbing. W. J Crocken, Cy. Engr.

HINSDALE, ILL.—We are informed that bids will be opened June 1, 1906, by Board Local Improvements for about 500,000 sq. ft. of cement walks. V. B. Roberts, of Chicago, Engr. J. W. Nicholson is in charge.

SPRINGFIELD, ILL.—We are informed that the contract for paving on West Grand Ave. with asphalt has been awarded to BARBER ASPHALT PAVING CO., and for paving English Ave. with brick to JOHN E. BRETZ. Frank H. Hamilton, Cy. Engr.

BELOIT, WIS.—Bids are asked until Oct. 23 for grading and macadamizing about 10,000 lin. ft. of road. Robt. Caldwell, Cy. Engr.

CEDAR RAPIDS, IA.—Bids are asked by Committee on Streets, City Hall, until 2 p. m., Oct. 15 for construction of permanent cement sidewalks. D. Feiereisen, Chn.

BURLINGTON, IA.—Wm. Steyh, Cy. Engr., informs us that the contract for 10,200 sq. yds. of brick paving here has been let to the BURLINGTON CONSTRUCTION CO. for $1.41 per sq. yd.

DES MOINES, IA.—The city council has passed a resolution directing Board Public Works to advertise for bids for asphalt pavement on West 28th St. John W. Budd is Cy. Engr.

WINONA, MINN.—All bids were rejected for grading Homer Road. No further bids will be called for this year. L. D. Frost is Cy. Recdr.; G. P. Coleman, Cy. Engr.

SALINA, KAN.—It is reported that Santa Fe and Iron Aves. are to be paved.

JEFFERSON CITY, MO.—The city has voted in favor of the proposed $25,000 bond issue for street improvements. E. F. C. Harding is Cy. Engr.

KANSAS CITY, MO.—The city is considering the paving of 40th St. with a material composed of crude oil and asphalt. E. A. Harper is Cy. Engr.

SULPHUR SPRINGS, TEX.—The County Court has appropriated $75,000 to be used in building pikes and roads in this county.

SAN ANTONIO, TEX.—Bids are asked by Robt. H. Stevens, C. Q. M., until Oct. 18 for grading target range at Fort Logan H. Roots.

HOUSTON, TEX.—Only one bid was received for paving with gravel, Milby St. The city will do the work itself. I. Austin Miller is Cy. Engr.

ASHLAND, ORE.—Bids will be received by Mayor and City Council until Oct. 17 for grading, curbing and paving a portion of Sandusky St. C. P. Winbiglerm, Mayor.

SAN FRANCISCO, CAL.—Board of Supervisors has passed a bill authorizing the Board Public Works to expend $7,500 to repair bituminous macadam.

MANUFACTURING PLANTS.

The names of parties awarded contracts are printed in capital letters.

BOSTON, MASS.—Fire destroyed the factory of the Standard Package Co., makers of wood fiber boxes, Binford St., South Boston. Loss, $50,000.

MARBLEHEAD, MASS.—Humphrey & Paine, shoe manufacturers, have plans for new shoe shop, and may begin work on it this fall. Address Herbert Humphrey.

PEABODY, MASS.—The Turner Tanning Machinery Co. is considering an addition to its plant. Address M. A. Holder, Supt.

ROCHESTER, N. Y.—Plans for new building of the German-American Button Co. have been given out. The structure is to be erected at North Union St. and the New York Central tracks. The main building will have two sections, one of which will be 282 × 51 ft., and the other 332 × 51 ft. There are to be two wings, 18 × 35 ft., and 18 × 54 ft. respectively. The building will be four stories, of concrete construction. Cost, $115,000.

ALBANY, N. Y.—Bacon, Stickney & Co., wholesale grocers, 37 Dean St., Albany, have purchased property at Broadway and Orange Sts., on which will be erected a large spice mill.

BROOKLYN, N. Y.—H. Vollweiller, 696 Bushwick Ave., has plans for a five-story brick, stone and iron extension to factory at Leonard and Meserole Sts., of J. Werbelovsky, 91 Meserole St. Cost, $20,000.

NEW YORK, N. Y.—J. S. Huyler, 863 Broadway, is taking figures on a factory to be erected at East 18th St., from plans by Schickel & Ditmars, Archs., 111 Fifth Ave. Brick and stone, 10 stories, 50 × 82 ft.

OSWEGO, N. Y.—The Minetto Shade Cloth Co. is in the market for two generators.

NORTH TONAWANDA, N. Y.—The Buffalo Steam Pump Co. has awarded a contract to MORRIS & ALLEN of Buffalo for several large buildings to be constructed in connection with their plant on Oliver St. at Gratwick. Work will be begun at once.

YORK, PA.—The York Safe & Lock Co. will erect an addition to its plant. The structure will be of brick, 110 × 160 ft.

CONNELLSVILLE, PA.—The Connellsville Machine & Car Co. has increased its capital stock to $150,000 and will rebuild and enlarge the plant destroyed by fire. Contracts for rebuilding will soon be let. Directors: Chas. Davidson, Jas. McGrath, Dr. L. P. McCormick, of Connellsville, and others.

PHILADELPHIA, PA.—Ballinger & Perrot, Archs., 1200 Chestnut St., have invited sub-bids for a five-story addition to factory for C. J. Matthews.

The Allen Dye Works, Cambria St. and Frankford Ave., have invited bids for a dye house. Brick, 3 stories, 6... × 125 ft.

CHESTER, PA.—Stevens ... & Co. will soon award the contract for a factory. Brick, 1 story, 280 × 80 ft.

STOWE, PA.—Geo. L. G... Arch., 619 Penn St., Reading, is preparing plans for foundry for S. G. Flagg & Co. Brick, 1 story, 100 × 240 ft.

DUNMORE, PA.—Koelle ... & Co., 608 Chestnut St., Philadelphia, ... preparing plans for a brew house ... Keystone Brewing Co. Cost, $50,000.

BALTIMORE, MD.—The Maryland Distilling Co., Saratoga and Da..., have purchased lots at 310-12-14 N. ... St. for the purpose of enlarging its plant.

LYNCHBURG, VA.—The ... D. Witt Shoe Co. will erect a large ... factory here.

HIGH POINT, N. C.—Sou... Machine Works, recently organized, will erect building, 30 × 60 ft., and equip as a machine shop. About $4,000 will be invested.

MAGNOLIA, S. C.—J. T. M... contemplates the establishment of ... factory.

WOODBURY, GA.—J. A. A... will rebuild planing mill, burned recently.

COLUMBUS, GA.—The Columbus Showcase Co., J. F. Mathers, Pres., will erect an additional building to its plant. Cost, about $60,000. Architect nad not been selected.

ROCKMART, GA.—A broom factory will be erected here by Pincard & ...

COLUMBUS, GA.—John D. ...kely and John S. Garner will establish a sugar refinery here.

JACKSONVILLE, FLA.—Dozier & Gay will erect a factory building.

BROOKER, FLA.—T. P. Ward is arranging for the erection of a saw mill.

ANNISTON, ALA.—The W... Roller Mills plant was destroyed by fire. Loss, $73,000.

ANNISTON, ALA.—J. H. Eldridge, of Carrollton, Ga., will establish a trunk factory here.

BIRMINGHAM, ALA.—The Dry Kiln & Stacker Co., of New Orleans, La., contemplates locating a plant in this city. Wm. Graham is Pres.

ANNISTON, ALA.—Weeler Rolling Mills & Forge Co.'s plant was destroyed by fire; loss, $76,000.

NEW ORLEANS, LA.—Walle & Co., Ltd., printing plant, located at 525 Gravier St., was destroyed by fire. Loss, $...

MELLVILLE, LA.—The Mellville Brick Co. has been incorporated with $...,000 capital stock to manufacture bricks, etc. C. W. Krotz is Pres.

MEMPHIS, TENN.—The Lily Bakery & Ice Cream Co. will erect an ice cream factory. The contract for the building has been awarded to M. J. GALLAGHER. About $15,000 will be expended on the building, exclusive of machinery and interior furnishings. The refrigerating plant, machinery, etc., will cost about $15,000. The company will install its own ice and electric plants.

CLARKSVILLE, TENN.—A furniture factory will probably be located here. The Secretary of the Chamber of Commerce can give information.

CLARKSVILLE, TENN.—The Red River Iron Furnace Co. will erect a foundry. Guy Johnson is Mgr.

MEMPHIS, TENN.—The Shelby Cotton Products Co. contemplates establishing a mill to manufacture cotton yarns. No machinery has been purchased.

BROWNSVILLE, TENN.—A $20,000 hosiery mill is to be established here by citizens of the town. $6,000 have been subscribed and a committee composed of Jonas Felsenthal, J. W. Byrn, B. A. Powell and John Clinton appointed to raise the remainder.

COLLINWOOD, O.—The John P. Cowing Engineering Co., Citizens' Bldg., Cleveland, will erect a new structural steel plant, at Collinwood. A structural building, 100 × 450 ft., will be erected, warehouse, 40 × 80 ft., and a shop 40 × 80 ft.

CLEVELAND, O.—The Osborn Engineering Co., Osborn Bldg., has completed plans for factory building for Cleveland Tanning Co.

EVANSVILLE, IND.—The Windsor Motor Car Co. will erect a factory here to manufacture automobiles, etc. J. A. Windsor is Secy.

LAFAYETTE, IND.—Kern Bros. have ordered plans for the construction of a large beef and pork-packing plant in this city. Est. cost, $100,000. Bids will soon be in order. Heine Kern is Pres.

DETROIT, MICH.—Rogers & McFarlane, Archs., 1310 Penobscot Bldg., have plans ready for figures for a two-story factory building for the Animal Trap Co., care Architects. Cost, $25,000.

DIXON, ILL.—The Sandusky (O.) Portland Cement Co. will erect a $750,000 Portland cement plant here. The plant will have a capacity of 2,000 bbls. per day and the buildings will all be of steel construction.

ST. LOUIS, MO.—The Rateman Building & Construction Co., 1943 St. Louis Ave., St. Louis, will receive figures until Oct. 18 for a one-story factory building, 79 × 157 ft., for the St. Louis Car Co. Cost, $5,000.

KANSAS CITY, MO.—The plant of the Missouri Valley Casket Co., was destroyed by fire. Loss, $50,000.

FORTH WORTH, TEX.—Armour & Co., of Chicago, Ill., contemplate erecting a canning factory here in connection with their packing plant.

CORPUS CHRISTI, TEX.—The Hastings Industrial Co., of Chicago, represented here by A. V. Palmer, contemplates establishing a creamery and canning factory here.

MUSKOGEE, IND. T.—G. W. Paget, of New York, contemplates erecting a wagon factory here. Secretary of the Commercial Club can give information.

MARYSVILLE, CAL.—Fire destroyed the Marysville winery, owned by Gottlieb, Sieber & Son. Loss, $75,000.

MISCELLANEOUS CONTRACTS.

The names of parties awarded contracts are printed in capital letters.

CANAL LOCK.—Savannah, Ga.—Bids are asked by County Commissioners, G. Reuben Butler, Clk., until Oct. 23 for erecting a lock at outlet of Casey canal.

PIER.—New York, N. Y.—Contract for constructing pier on North River at 42d St., for this city has been awarded to BERNARD ROLF, 39 Cortlandt St.

DREDGING.—Marquette, Mich.—Contract for dredging at new ore dock for the Duluth, South Shore & Atlantic Ry. has been let to McDONALD & SULLIVAN, Duluth, Minn.

WRECK REMOVAL.—Norfolk, Va.—Bids are asked until noon Nov. 2 for removing wreck of bark "J. D. Bischoff" off Newport News, Va. Capt. E. Eveleth Winslow, U. S. Engrs. (Advertised, Engineering News.)

DRAIN.—Clarinda, Ia.—Bids are asked by W. S. Jordan, County Audr., until 9 a. m., Oct. 23 for construction of drain in Colfax Township, requiring about 15,250 cu. yds. excavation.

DREDGING.—Columbus, O.—State Board Public Works has awarded contract for excavation of 200,000 cu. yds. earth from Ohio Canal to D. E. SULLIVAN & SON, Columbus. Bids were opened Oct. 3.

RIPRAP.—Baltimore, Md.—Bids are asked until noon Oct. 18 for furnishing about 700 cu. yds. riprap and placing it at Lower Cedar Point Light Station. Lt.-Col. R. L. Hoxie, U. S. Engrs.

RETAINING WALL.—Cincinnati, O.—Bids are asked by Geo. F. Holmes, Clk. Bd. Pub. Service, until Nov. 1 for constructing retaining wall between East 6th St. and Russell St.

DITCH WORK.—Slayton, Minn.—Bids are asked by Ole O. Holman, County Audr., until 2 p. m., Oct. 19, for construction of four ditches, involving 79,250 cu. yds. excavation; total est. cost is $10,244.

TRESTLE.—Pitsburg, Pa.—Contract for a larry trestle of steel construction has been awarded to WM. B. SCAIFE & SONS CO., Pittsburg, Pa., by the Colonial Coke Co., to be erected at their Fayette County works.

SMOKE STACK.—Alliance, O.—Bids are asked by Board Public Service, C. E. Harsh, Clk., until noon Oct. 18 for construction of 100 ft. high smokestack at water-works pumping station. Stack is to be either of brick or iron lined with brick.

MASONRY CHANNEL.—Waterbury, Conn.—Bids are asked by Board Public Works until 4 p. m., Oct. 17 for construction of masonry channel, 5 ft. by 5 ft. center height and 156 ft. long, for Little Brook. R. A. Cairns, Cy. Engr.

CONCRETE WALL.—Chattanooga, Tenn.—Bids are asked until 11 a. m., Nov. 20, for constructing concrete river wall at Colbert Shoals, Tennessee River, Ala. Major H. C. Newcomer, U. S. Engrs. (Advertised, Engineering News.)

DITCH WORK.—Crookston, Minn.—Bids are asked by N. A. Hoffard, County Audr., until 2 p. m., Oct. 20, for the construction of ditch No. 55, 42 300 yds. excavtion. Bids will also be received at 3 p. m., Oct. 20, for ditch 57, 59,000 yds.

ELEVATING EQUIPMENT, ETC.—Washington, D. C.—Bids are asked by Bureau of Supplies and Accounts until 10 a. m., Oct. 24 under schedule 173 for furnishing a quantity of elevating and rammer electrical equipments.

PIER WORK, SAND.—New York, N. Y.—Bids are asked by Maurice Featherson, Comr. Docks, until 2 p. m. Oct. 20 for material and labor for building new piers, one near foot of West 14th St., the other at foot of West 13th St.; bids are also asked for about 6,000 cu. yds. sand.

PORTLAND CEMENT.—Denver, Colo.—Bids are asked by U. S. Reclamation Service, Denver, until 2 p. m., Nov. 1 for furnishing 10,000 bbls., more or less, of Portland cement, f. o. b cars at stations between Torrington and Whalen, Wyo. (Advertised, Engineering News.)

STEEL ROLLED BEAMS.—New York, N. Y.—Bids are wanted for furnishing about 260 tons of steel rolled beams and joists, c. i. f., Bombay, British India. Terms and condition of contract are on file at office of Engineering News, 220 Broadway, New York, N. Y. (Advertised, Engineering News.)

SEWER PIPE, VALVES, ETC.—Washington, D. C.—Bids are asked by D. W. Ross, Gen. Purchasing Officer, Isthmian Canal Commission, until 2 30 p. m., Oct. 16 for furnishing vitrified sewer pipe and fittings, vault doors, safes, wooden faucets, water valves, valve standards and fittings, hydraulic rail punches, rail benders, car wheels, etc.

TILE DRAIN.—Raymond, Ill.—Bids are asked by W. A. Beatty and H. P. Dover, Comrs., Union Drainage District No. 1, until 10 a. m., Nov. 4, for furnishing the following amounts of salt glazed vitrified drain tile: 6,300 ft., 20-in.; 3 630 ft., 15-in.; 4,620 ft., 14-in.; 4,500 ft., 12-in.; bids are also wanted for laying above tile. James W. Dappert, Engr., Taylorville, Ill.

DITCH.—Rockwell City, Ia.—Bids are asked by B. E. Stonebraker, County Audr., until noon Oct. 20 for the construction of a ditch and tile drain in District 22, involving 9,100 ft. open ditch, 1,500 ft. 20-in., 1,500 ft. 18-in., 1,400 ft. 16-in. and 1,704 ft. 14-in. tile. Bids will also be received at the same time for work in District 14, involving 12,944 ft. open ditch, 5,500 ft. 20-in., 2,400 ft. 18-in., 3,000 ft. 16-in. and 2,952 ft. 14-in. tile.

CANAL, BRIDGES, ETC.—Port Huron, Mich.—Bids are asked by City Controller until Nov. 3 for material and labor for uncompleted portion of canal from Lake Huron to Black River. Work requires about 270,000 cu. yds. excavating, double-track railroad bridge, one highway bridge (iron on the ground), water gate at Lake end, and 350 ft. of protection pier. R. D. O'Keefe, Supt. Pub. Wks. (Advertised, Engineering News.)

WASH BORINGS.—New York, N. Y.—Rapid Transit R. R. Comrs. have awarded contract for making wash borings on the lines of the proposed Rapid Transit Railway routes in Manhattan, Bronx, Brooklyn and Queens Boroughs, including such routes as pass under the East and Harlem Rivers and other navigable waterways, to the HEALY SEWER MACHINE & CONSTRUCTION CO., 15 Beacon St., Boston, Mass., for $35,605. Bids were opened Sept. 20.

TIMBER PIER.—Boston, Mass.—Following bids were opened Oct. 7 (readvertisement) by Bureau Yards and Docks, Washington, D. C., for construction of timber and pile pier at Boston Navy Yard; (1) Bid for pier only, (2) bid per cu. yd. for dredging on south side of pier: Wm. L. Miller, 19 Milk St., Boston, Mass., (1) $36,393, (2) 35 cts.; Wm. J. Lawler, 16 City Sq., Charlestown, Mass., (1) $37,000, (2) 40 cts.; Bernard Rolf, 39 Cortlandt St., New York, (1) $37,333, (2) 35 cts.; W. H. Ellis, 17 Milk St., Boston, Mass., (1) $36,475, (2) 30 cts.

WELL DRILLS.—Washington, D. C.—Following bids were opened Sept. 30 by Isthmian Canal Commission for furnishing 20 well drills and appurtenances: Motley, Green & Co., New York, $18,380; Hudson Engineering & Contracting Co., 92 William St., New York, $19,344; Manning, Maxwell & Moore, 85 Liberty St., New York, $17,664 and $17,434; Star Drilling Machine Co., Akron, O., $19,272 and $16,872; St. Louis Well Machine & Tool Co., St. Louis, Mo., $19,192; Wm. C. Barker Co., New York, $12,703; Austin Mfg. Co., Chicago, Ill., $14,456 and $15,956; Keystone Drillery Co., Beaver Falls, Pa., $18,717.

WHARF, COAL POCKET.—Boston, Mass.—Following bids were received Oct. 9 for building a wharf and coal pocket at North Ferry, East Boston: (1) 270 piles, per pile; (2) 80 gates, per gate; (3) wharf and coal pocket; all bidders of Boston: Lawlor Bros., (1) $14, (2) $15, (3) $25,000; Geo. H. Cavanagh, (1) $17, (2) $12, (3) $23,975; W. H. Ellis, (1) $12, (2) $17, (3) $23,436; J. J. Flynn, (1) $16, (2) $11, (3) $23 242; W. L. Miller, (1) $12, (2) $11; (3) $22,400; Cahill Const. Co., (1) $15, (2) $15, (3) $22,037; Geo. W. Hayes, 166 Devonshire St., (1) $10, (2) $10, (3) $21,224.

DREDGE PUMPS, BLOCKS, ETC.—St. Louis, Mo.—All bids opened Sept. 8 by Major Thos. L. Casey, U. S. Engrs., for furnishing centrifugal dredging pumps, pillow blocks, tie beams, pipe lines and flexible joints were considered excessive and were rejected. The lowest bids received were as follows: Two centrifugal dredging pumps, Rosedale Foundry & Machine Co., Allegheny, Pa., $8,100; four pillow blocks, Wm. C. Johnson & Sons Machinery Co., St. Louis, Mo., $294; four girders or tie beams, Ellicott Machine Co., Baltimore, Md., $400; 24 sections discharge pipe and flanges, Camden Iron Works, Camden, N. J., $3,720; 14 ball and socket joints (flexible joints), Camden Iron Works, $3,570.

FLAT CARS, STEAM SHOVELS, ETC.—Washington, D. C.—Bids were opened Oct. 4 by the Isthmian Canal Commission for furnishing flat cars, steam shovels, etc., the bids received being as follows: 800 flat cars, steel, wooden floor, 80,000 lbs. each, Standard Steel Car Co., Pittsburg, Pa., $1,265; Press Steel Car Co., $1,294; 800 flat cars, steel, wooden floor, 100,000 lbs., each, Standard Steel Car Co., $1,309; Press Steel Car Co., New York, $1,370; 800 flat cars, wooden, 80,000 lbs. each, Seattle Car Mfg. Co., $980; American Car & Foundry Co., $1,044, $997; J. K. Joyce, Chicago, Ill., $1,149. Steam shovels, 70 ton, 19 in all, each, Marion Steam Shovel Co., Marion, O., $10,400; Atlantic Equipment Co., New York, $11,650; Allis-Chalmers Co., Milwaukee, Wis., $9,400; Bucyrus Co., South Milwaukee, Wis., $10,240. Six unloaders, each, Lidgerwood Mfg. Co., New York, $7,949. Twelve unloading plows, each, Marion Steam Shovel Co., $900.

CABLE, CEMENT, ETC.—Washington, D. C.—Bids are asked by Bureau Supplies and Accounts, until 10 a. m., Oct. 24, for furnishing a quantity of naval supplies, among which are the following: Schedule 167—Electrical cable, dry mortar, Portland cement, sand, pipe bending machine, white pine, steel channels, expanded metal, water-closet, etc., terra-cotta pipe, push cars; schedule 168, incandescent lamps, thermostats, sockets, wire, conduit and fittings, rubber gaskets, electrical supplies, lathe; schedule 169, files, file handles, steel shafting, lacing leather; schedule 170, cotters, taps and dies, white pine, strip brass, sheet copper, bar and sheet steel, sheet tin, tarred felt, hose, gate valves, pipe fittings, steam tables, windlasses; schedule 171, steel and bronze bolts and nuts; schedule 172, bolts, nuts, brass and copper wire, oiler sets, hydraulic jacks, grommets, saws, vises, pipe and screw wrenches, screws, miscellaneous hardware and tools, rod and sheet copper, galvanized pipe, valves, brass and iron pipe fittings, steam gages, etc. H. T. B. Harris, Paym.-Gen., U. S. N.

READERS' WANTS

If any one is in the market for any engineering or contracting supplies, the first thing to do is to refer to our advertising pages, but if the buyer cannot find what he wants we particularly ask that he notify us at once and we will inform the proper parties without cost to the inquirer. A copy of **ENGINEERING NEWS BUYERS' GUIDE** will be mailed to any one upon application. This paper will always appreciate any news notes regarding public, or important private work, and will be pleased to receive detailed items. Requests to hold names will be complied with in every case. **Do not fail to write our advertisers or us.**

SPIRAL STAIRWAYS.—Cocoanut Grove, Fla.—R. L. Stewart, C. E., Box 161, writes us that he wishes catalogues from manufacturers of iron spiral stairways.

I BEAMS.—Philadelphia, N. Y.—A. F. Nims, Contractor and Engr., writes us that he is in the market for about 60 tons of standard 12 and 15-in. I beams.

GASOLINE ENGINES.—Wynnewood, Ind. Ter.—J. E. Root, Cy. Engr., writes us that he desires information regarding a 50-HP. gasoline engine, etc., for the new waterworks.

CENTRIFUGAL PUMP.—Westport, Conn.—The Westport Water Co., F. B. Hubbell, Supt., writes us that he is in the market for a 6-in. centrifugal pump, direct connected to steam engine.

VALVES.—Salem, Va.—J. N. Ambler, Cy. Engr., writes us that he wishes to be put in correspondence with manufacturers of pressure regular valves and safety valves for water mains.

CORE DRILLS.—Oakfield, N. Y.—F. C. Jones, Div. Supt. U. S. Gypsum Co., writes us that he wishes to be placed in correspondence with manufacturers of core drills for sinking test holes.

CREMATORS.—Des Moines, Iowa.—John MacVicar, Secy. League Am. Municipalities, writes us that he has an inquiry for the name of a firm that install cremators for incinerating the human dead.

ELECTRIC HEATERS, ETC.—Liberty, Sullivan County, N. Y.—E. C. White, Engr., Loomis Sanatorium, writes us that he wishes to secure the names of manufacturers of electrical heating systems.

CONTRACTORS' SUPPLIES, ETC.—Toledo, O.—T. Rhys Smith, Ch. Engr., C., T. & D. Short Line Ry., 207 Meredith Bldg., writes us that he wants catalogues of manufacturers of contractors' supplies.

ROPE MACHINERY.—Hancock, Mass.—E. P. Osgood, of Hancock, writes us that he wants the addresses of manufacturers of rope machinery, more particularly of machines for manufacturing hemp rope, etc.

IRON TANKS ON WHEELS.—Mexico.—A. Leon-Gajeda, 32 Broadway, P. O. Box 1175, New York, writes us that prices are wanted for iron tanks on wheels, with hot air pump attached, to clean cesspools, sewers, etc.

BRICK AND SEWER PIPE WORKS.—Winnipeg, Man.—H. M. E. Evans, Mgr. Maich Bros. & Wells, Bankers, writes us that information is wanted regarding the cost of operation, etc., of brick and sewer pipe works.

PUMPING ENGINE.—Rockford, Ill.—F. J. Phinney, Supt. W.-W., writes us that the council is considering the matter of purchasing a new pumping engine of about 10,000,000 gals. capacity. Correspondence with manufacturers is wanted.

RODS FOR CONCRETE WORK.—Louisa, Ky.—The Hollerbach & May Contract Co., S. L. May, vice-Pres. and Treas., writes us that he desires a sleeve or coupling with standard thread for use on rods through concrete holding the forms.

BRIDGE BUILDERS' MACHINERY.—Glasgow, Scotland.—The General Manager of Arrol's Bridge & Roof Co., Ltd., Germiston Works, Glasgow, writes us that he wishes to be put in touch with makers of up-to-date bridge builders' machinery.

CONTRACTORS' SUPPLIES, ELECTRICAL EQUIPMENT, WATER-WORKS AND SEWER MATERIAL, ETC.—Toledo, O.—The Gardner Co., Engineers and Contractors, 207 Meredith Bldg., writes us that it expects to do a general contracting business, and wishes to receive catalogues from manufacturers of the above supplies.

U. S. POSSESSIONS AND CUBA.

The names of parties awarded contracts are printed in capital letters.

COALING PLANT.—Philippines.—Contract for construction of coaling plant at Olongapo, P. I., for U. S. Government has been awarded to J. G. WHITE & CO., 43 Exchange Pl., New York, for $499,500. Bids were opened Aug. 26.

RAILROAD.—Alaska.—John P. Jamison, a civil engineer, sent to this country by New York and Philadelphia capitalists is stated to have made report recommending the construction of the proposed Alaska railroad from Cadova Bay to Eagle City. Wm. L. Bull, 17 Nassau St., New York, is reported to be at the head of the enterprise.

LIME, ROOFING, ETC.—Cuba.—Bids are asked by Bureau Supplies and Accounts, Washington, D. C., until 10 a. m., Nov. 7 under schedule 175 for furnishing at naval station, Guantanamo Bay, Cuba., a quantity of quick lime, rubberoid roofing, molding, doors and windows, screen doors, yellow pine, metal lathing, hardware, nails, vitrified sewer pipe, lavatories and fittings.

ROAD WORK.—Cuba.—The following appropriations are to be made by the Cuban Congress for road work in the Province of Havana during 1905-1906: Extension of highway from Menagua to Batabano, 4.2 Km., $60,000; extension of highway from Cuatro Caminos to Managua, 5.0 Km., $20,500; extension of highway from Punta Brava to San Pedro, 4.6 Km., $40,000; extension of road from Bejucal to Batabano, by way of Quivican, 7.0 Km., $50,000; extension of highway from San Antonia de los Banos toward Guira, 10.8 Km., $30,000; branch of highway from Cuatro Caminos toward Alquizar, 5.0 Km., $20,000; extension of highway from Havana to La Gallega, 4.0 Km., $20,000; first section of highway from San Jose de las Lajas to Catalina de Guines, 18 Km., $25,000; first section of highway from Caraballo to Bainoa, 6.0 Km., $25,000; extension of highway from Guayabal to Ceiba del Aqua, 6.7 Km., $20,000; first section of highway from Guara to San Jose de las Lajas, 17.8 Km., $20,000. Total, $330,500.

CIVIL SERVICE EXAMINATIONS

DRAFTSMAN.—Municipal Civil Service Commission of New York City, Henry Berlinger, Secy., 61 Elm St., New York, will hold an examination Oct. 31 for the position of topographical draftsman, at a salary of $1,200 per annum. Application will be received until 4 p. m., Oct. 24.

DRAFTSMAN, RODMAN, ETC.—The New York State Civil Service Commission, Charles S. Fowler, Chief Examiner, Albany, N. Y., has announced a general examination to be held Oct. 28. Among the positions to be filled are those of bridge draftsman, State Engineer's office, $1,200 per year; deputy factory inspector, $1,200; rodman, State Engineer's office, $3.50 per day. The last day for filing applications is Oct. 23; application forms and detailed information may be obtained from the Chief Examiner.

INDUSTRIAL NOTES.

THE ALBERGER CONDENSER CO., 95 Liberty St., New York, and 205 La Salle St., Chicago, announces that it has recently acquired the entire Wainwright business, and will hereafter manufacture and sell Wainwright feed water heaters and expansion joints. These specialties have lately been manufactured by the Taunton Locomotive Manufacturing Co., Taunton, Mass., which is now going out of business. William R. Billings, formerly Treasurer and General Manager of that company, has become connected with the Alberger Condenser Co. and will be in charge of the Wainwright business under its new ownership.

THE LAWRENCE PUMP & ENGINE CO., of Lawrence, Mass., has been awarded the contract for a centrifugal pump and engine to be installed for the City of Washington, Ind. The pump will have a capacity of three million gallons per day and will be of the latest design of the makers', driven by a vertical fully-enclosed engine, arranged for forced lubrication. In addition to the main pumps and engines the contract includes the smaller centrifugal pumps for use in connection with other apparatus in the plant. The main water supply for the mills of the St. Croix Paper Co. now building at Sprague Falls, Me., will be furnished by two slow speed, multiple stage turbine centrifugal pumps having a capacity of ten million gallons per day. The contract for these pumps has been placed with the Lawrence Pump & Engine Co.

THE INTERNATIONAL ACHESON GRAPHITE CO., of Niagara Falls, N. Y., with the recent completion of a large extension equipped with modern electrical and mechanical appliances and machinery, has doubled the capacity of its plant for creating graphite in the electric furnace, and has closed a contract with the Niagara Falls Power Co., for another 1,000 HP. of electrical energy in addition to the 1,000-HP. previously used. The commercial importance of this artificial graphite may be estimated from the fact that the United States Geological Report for 1904 states that for that year the value of Acheson Graphite produced was $217,790, while all the graphite mined in this country amounted merely to $341,272. New York State, which is considered rich in deposits, according to the official report of 1904, produced natural graphite worth $119,509. Acheson graphite is largely used in the manufacture of metal protective paints, dry batteries, stove polish, packing and as a lubricant. The electrochemical processes also consume an extensive supply of Acheson graphite electrodes.

THE MONARCH ROAD ROLLER CO., of Groton, N. Y., has been incorporated under the laws of the state of New York by J. B. Tuck, with a capital of $250,000. At the trustee's sale, Sept. 14, 1905, all the property of the American Road Roller Co. was purchased, which includes about twelve acres of real estate, on which is located a modern, up-to-date plant, including boiler shop, forge shop, foundry, machine shop, power house, stock room, paint shop, wood shop, and warehouse, which gives 100,000 sq. ft. floor space. The power house is equipped with two 150-HP. boilers, American Ball compound engine with direct connected generator, all the machinery in the plant being operated by electricity. The foundry has two cupolas, the boiler shop is equipped with pneumatic boiler making machinery, and the machine shop with the best machines now used for its class of work including a full line of boring mills, planers, lathes, milling machines, drills, shapers, etc., and each shop has electric traveling cranes. The plant will be put in active operation within the next thirty days, and will manufacture road rollers, traction engines, street sweepers, etc.

THE SULLIVAN MACHINERY CO., Chicago, Ill., states that a hoisting engine of very heavy design has just been shipped to the Centennial Copper Co., from its Chicago works. It is of the direct acting type and consists of two 36 × 60-in. simple, reversible Corliss engines of the heavy duty type, connected to a straight-faced drum 15 ft. in diameter by 15 ft. winding face. The drum is grooved for 1⅜-in. wire rope and is keyed direct to the engine shaft. The plant is designed to hoist from a vertical depth of 5,000 ft., at the rate of 4,000 ft. per minute, with a boiler pressure of 150 lbs. The reverse engine is of novel design, and may be operated by either steam or air. The brake mechanism is arranged for steam, hand or gravity operation, with independent control in each case. The main throttles are on the cylinders, moved by hand from the engineer's platform, which is elevated to a point higher than the drum. The dial indicators are provided with fast and slow moving pointers. A very sensitive and powerful automatic stop and throttle closing device is another important feature, diminishing the danger of over-winding with the high speed used.

THE MORSE CHAIN CO. will erect a large new plant at Ithaca, N. Y., which will be operated in conjunction with the present factory of the company situated at Trumansburg, N. Y. It is the intention of the Morse Chain Co. to make this new plant a model one in every way and ample facilities for future expansion will be provided. The main building, which will contain the general offices, will be three stories in height and will measure 64 × 203 ft. over all. The first floor will be used for the machine shop and a floor space of 64 × 236 ft. has been set apart for this purpose. The other buildings to be provided will be one story in height and their general dimensions are as follows: Foundry, 68 × 135 ft.; forge shop, 36 × 86 ft.; pattern

shop, 82 × 28 ft.; power house, 105 × 45 ft. Steel and concrete have been used throughout in the construction of this plant and everything has been done to provide for an equipment in keeping with the advanced machine shop practice of the times. This is illustrated by the fact that gear cutters, boring mills, lathes and general plant equipment to the amount of $50,000 will be installed, a greater portion of which has already been purchased. The machine shop will be equipped with 10-ton electric traveling cranes, as the light nature of the material under construction does not warrant the installation of very heavy cranes. The foundry will be equipped with electric cranes of 15 tons capacity having a span of 50 ft.

CONTRACT PRICES.

[Where (*) precedes items under Contract Prices the work was advertised in Engineering News.]

*FILTERS, BASINS, ETC.—Cincinnati, O.—Following bids were opened Sept. 29 by Board Trustees, Commissioners of Water-Works, Elmer G. Prior, Clk., for construction of filters, coagulation basins and clear water reservoir, with pipe lines, valve chambers, etc.; (1) Keeling & Ridge, Cincinnati, O., (2) F. H. Kirchner, Cincinnati, O., (3) W. J. Gawne Co., Cleveland, O., (4) Pittsburg Filter Mfg. Co., Pittsburg, Pa., (5) Ferro Concrete Construction Co., Cincinnati, O.:

*WATER PIPE LAYING.—Libertyville, Ill.—Following bids were received Oct. 5 by Board Local Improvements, James Anderson, Jr., Engr., Lake Forest, Ill., for laying water pipe; (1) laying 3,050 ft. 8-in. pipe, (2) 28,650 ft., 6-in. pipe, (3) 612 ft., 4-in. pipe, (4) 51 hydrants, (5) totals; in addition to bids given below L. McDonough, Waukegan, Ill., offered lump bids totaling $33,129:

Rialto Bldg., San Francisco, $1.555 f. o. b. Tolends, Cal.; Western Fuel Co., 318 California St., San Francisco, $1.60 f. o. b. Napa Junction, Cal.; Western States Portland Cement Co., Independence, Kan., $1.25 f. o. b. Independence, Kan., also $4.10 f. o. b. Yuma; California Portland Cement Co., 401 Trust Bldg., Los Angeles, Cal., $2.45 f. o. b. Colton, Cal.

Bids Received at Libertyville, Ill., Oct. 5, 1905, by Board Local Improvements, for Laying Water Pipe.

Name and Address.	(1)	(2)	(3)	(4)	(5)
F. G. Mortimer, Glencoe, Ill	$0.95	$0.78¼	$0.65	$50.00	$28.305
C. M. Porter, 84 La Salle St., Chicago	1.08	.84	.62	36.00	29,574
C. E. Russell, Waukegan, Ill	1.15½	.89¼	.71¼	50.00	31,570
E. M. Laing, Highland Park, Ill	.98	.80	.50	36.00	28,051
C. F. Bartlett, Evanston, Ill	1.20	.95	.80	42.00	33,509
W. J. Allan, Waukegan, Ill	1.14	.83	.60	41.00	29,714
P. R. Fletcher, Blue Island, Ill	1.02	.81	.65	40.00	28,469
McNicholls & Cogan, 84 La Salle St., Chicago.	.92	.80	.60	36.00	27,929

*DREDGING.—New York, N. Y.—Following bids per cu. yd., scow measurement, were opened Oct. 3 at U. S. Engineers' Office for dredging, only one bid being received in each case: Dredging in Mattawan Creek, N. J., John & Joseph McSpirit, 118 Wayne St., Jersey City, 28 cts. Keyport Harbor, N. J., R. G. Packard Co., 130 Pearl St., New York, 33 cts. Woodbridge Creek, N. J., J. M. Briggs, 17 Battery Pl., New York, 48 cts. Elizabeth River, N. J., John & Joseph McSpirit, 118 Wayne St., Jersey City, N. J., 44 cts.

*PORTLAND CEMENT.—Billings, Mont.—Following bids were opened Sept. 26 by U. S. Reclamation Service, A. P. Davis, Asst. Ch. Engr.; H. N. Savage, Supervising Engr.; Jeremiah Ahern, Des. Engr., for furnishing 25,000 bbls., more or less, of Portland cement for Shoshone Project, Wyo.: Illinois Steel Co., Edward M. Hagar, Mgr. Cement Dept., Rookery Bldg., Chicago, Ill., $1.30 per bbl. delivered f. o. b. mill at South Chicago, Ill.; The Portland Cement Co., G. W. Bartholomew, Gen. Sales Agt., Denver, Colo.,

BIDS RECEIVED AT CINCINNATI, O., SEPTEMBER 29, 1905, BY BOARD TRUSTEES, COMMISSIONERS OF WATER WORKS, FOR CONSTRUCTION OF FILTERS, COAGULATION BASINS AND CLEAR WATER RESERVOIR, WITH PIPE LINES, VALVE CHAMBERS, ETC.

Items.	Quantities.	(1)	(2)	(3)	(4)	(5)
Clearing and Grubbing		$1,000.00	$1,500.00	$1,000.00	$3,600.00	$1,500.00
General Excavation	49,000 cu. yds.	.40	.48	.60	.64	.52
Excavating and placing selected clay material	47,000 "	.45	.55	.80	.81	.60
Compacting fills	25,000 ton-miles	.20	.15	.30	.23	.20
Seeding	15 acres	100.00	40.40	40.00	50.00	200.00
Sodding	9,000 sq. yds.	.50	.30	.25	.65	1.25
Laying 60-in. cast-iron pipe	3,500 lin. ft.	5.00	5.00	7.00	7.36	6.30
" 36 " " "	825 "	2.50	3.50	5.00	5.16	4.20
" 30 " " "	215 "	2.50	2.90	4.00	4.77	3.50
" 24 " " " (overflow)	380 "	2.00	2.90	2.00	3.87	3.00
" 24 " " " (drain)	425 "	2.00	2.90	3.00	3.98	2.50
" 20 " " "	560 "	1.50	1.50	2.00	2.76	2.00
" 12 " " " (from chamber G)	95 "	2.50	1.25	5.00	3.71	2.50
" 12 " " " (line parallel to filter house)	1,130 "	.75	1.25	1.00	2.91	1.75
" 8 " " "	2,000 "	.50	1.00	.30	.48	1.00
" 6 " " "	175 "	.50	.60	.50	.35	1.00
" 4 " " "	90 "	.50	.60	.50	.35	1.00
Furnishing and laying 4-in. wrought-iron pipe and hose connection	......	250.00	4,000.00	200.00	255.00	400.00
Laying 84-in. steel pipe	1,555 lin. ft.	6.00	8.00	7.00	6.82	7.00
Setting 60-in. gate valves	8 valves	100.00	150.00	100.00	40.00	100.00
" 48-in. gate valve	1 valve	75.00	125.00	100.00	40.00	70.00
" 84-in. sluice valves	11 valves	75.00	175.00	100.00	50.00	80.00
" 60-in. "	2 "	75.00	150.00	75.00	50.00	70.00
Setting mud valves	6 "	100.00	150.00	75.00	50.00	100.00
Broken stone revetment	1,950 cu. yds.	1.75	2.00	1.50	2.50	2.00
Dry stone paving	150 "	7.00	5.00	6.00	4.50	7.00
Brick masonry	360 "	15.00	16.00	17.00	14.00	12.00
Concrete, Class A (dividing wall)	5,500 "	5.50	7.00	6.50	6.47	6.00
" Class B (general)	22,000 "	8.00	7.00	7.75	8.16	8.40
" Class C (floors)	500 "	15.00	8.00	14.00	18.46	18.00
" Class D (filters)	4,330 "	10.00	10.00	7.50	9.76	11.00
" Class E (curbs)	530 "	8.00	12.00	10.00	15.00	9.00
Steel reinforcement	220 tons	80.00	80.00	75.00	80.00	65.00
Asphalt, burlap, and brick revetment	26,800 sq. yds	1.25	1.45	1.35	1.60	1.30
Asphalt waterproofing	13,300 "	.50	.60	.50	.65	.50
Placing filter piping	......	25,000.00	42,000.00	30,000.00	13,700.00	24,000.00
Placing filter strainer systems	28 fil. sys.	500.00	453.00	200.00	125.00	420.00
Placing filter gravel	600 cu. yds.	1.00	1.00	1.00	.75	2.00
Placing filter sand	4,000 "	.75	.75	.40	.50	.85
Furnishing and placing wrought-iron and steel work	8 tons	140.00	80.00	150.00	160.00	150.00
Furnishing and placing iron castings	14 "	120.00	60.00	100.00	100.00	120.00
Placing miscellaneous castings	10 "	20.00	10.00	40.00	40.00	25.00
Totals		$464,050	$487,566	$488,112	$514,885	$510,025

*INTERCEPTING SEWER.—Salt Lake City, Utah.—Following bids were opened Oct. 4 by Board Public Works, Geo. W. Riter, Cy. Engr., for constructing intercepting sewer and pumping station; (1) JAMES KENNEDY, Fargo, N. Dak. (awarded contract); (2) R. C. Storrie, Dallas, Tex.; (3) Lynn S. Atkinson, Colorado Springs, Colo.; (4) P. J. Moran, Salt Lake City, Utah:

*DREDGING.—New York, N. Y.—Following bids per cu. yd., scow measurement, were opened Oct. 3 at U. S. Engineers' Office for dredging in Raritan River: P. Sanford Ross, Inc., 277 Washington St., Jersey City, N. J., 15.85 cts.; R. G. Packard Co., 130 Pearl St., New York, 21½ cts.; The W. H. Beard Dredging Co., 8 Bridge St., New York, 19 cts.; Morris & Cummings Dredging Co., 21

$1.35 per bbl. delivered f. o. b. mill at Portland, Colo. (proposal informal and not accompanied by the specifications); Alpena Portland Cement Co., Martin T. Roche, N. W. Sales Mgr., 410 Pioneer Press Bldg., St. Paul, Minn., $1.40 per bbl., delivered f. o. b. cars at Duluth, Minn., N. P. Co.'s dock (proposal requires bags returned to Duluth, freight prepaid).

*OUTLET SEWER.—Salt Lake City, Utah.—Following bids were opened Oct. 4 by Board Public Works, Geo. W. Riter, Cy. Engr., for constructing extension of the gravity outlet sewer; (1) Lynn S. Atkinson, Colorado Springs, Colo. (bid contingent to being awarded contract for intercepting sewers); (2) JAMES KENNEDY, Fargo, N. Dak. (awarded contract); (3) P. J. Moran, Salt Lake City, Utah:

Bids Received at Salt Lake City, Utah, October 4, 1905, by Board Public Works, for Constructing Intercepting Sewer and Pumping Station.

Items.	Quantities.	(1)	(2)	(3)	(4)
Earth excavation for sewer	48,000 cu. yds.	$1.70	$2.45	$1.70	$1.85
Earth excavation for pumping station	1,100 "	1.70	2.50	1.50	1.85
30-in. x 45-in. concrete sewer	5,500 lin. ft.	2.80	4.00	5.00	3.20
27-in. x 42-in. concrete sewer	4,700 "	2.75	3.75	4.50	3.00
28-in. brick sewer	3,100 "	3.50	2.00	2.00	3.40
15-in. vitrified pipe sewer	4,700 "	1.10	1.50	1.00	1.20
12-in. " " "	3,900 "	.80	1.00	.80	.90
6-in. vitrified pipe sub-drain	6,500 "	.20	.60	.60	.23
Wood sub-drain	15 M.	40.00	75.00	60.00	40.00
Portland cement concrete in pumping sta.	350 cu. yds.	11.00	12.00	10.00	12.00
Brick masonry	400 "	20.00	14.00	15.00	18.00
Setting iron and steel	20,000 lbs.	.02	.02	.01½	.03
Setting steel reinforcement	115,000 "	.02	.01	.03	.07
Gravel filling	100 cu. yds.	1.25	2.50	2.00	1.00
Piling in sewer trench	1,000 lin. ft.	.80	2.00	1.00	.75
Lumber in sewer foundation	1 M.	40.00	75.00	50.00	40.00
Totals		$148,350	$195,825	$165,220	$165,260

Bids Received at Salt Lake City, Utah, October 4, 1905, by Board Public Works, for Constructing Extension of the Gravity Outlet Sewer.

Items.	Quantities.	(1)	(2)	(3)
Earth excavation for Sewer	7,000 cu. yds.	$0.60	$1.20	$1.40
32-in. x 42-in. concrete sewer	5,000 lin. ft.	4.00	3.80	4.00
Brick masonry	30 cu. yds.	15.00	18.00	18.00
Setting iron and steel	10,000 lbs.	.01½	.02	.04
Setting steel reinforcement	50,000 lbs.	.03	.02	.07
Totals		$26,300	$29,140	$34,240

*PIER WORK.—Grand Rapids, Mich.—Following bids were opened Oct. 4 by Col. M. B. Adams, U. S. Engrs., for extension of piers, improving harbor at Holland, Black Lake, Mich.; (1) Macdonald & Beauvais, Muskegon, Mich., (2) Bennett-Schnorbach Co., Muskegon, Mich., (3) Robert Love, Muskegon, Mich., (4) Great Lakes Dredge & Dock Co., Chicago, Ill., (5) Burke, Smith & Nelson, Muskegon, Mich.:

State St., New York, 21.9 cts.; Seely-Taylor Co., 78 Broad St., New York, 26 cts.; The International Contracting Co., 10 Battery Pl., New York, 18 cts.; Coastwise Dredging Co., Norfolk, Va. 16.7 cts.

*PORTLAND CEMENT.—Los Angeles, Cal.—Following bids per bbl. were opened Sept. 30 by U. S. Reclamation Service for furnishing 30,000 to 40,000 bbls. cement for the Yuma Project: Pacific Portland Cement Co.,

BRICK PAVING.—South Bend, Ind.—Bids were opened Oct. 3 by Board Public Works, A. J. Hammond, Cy. Engr., for paving Rex St., to a width of 30 ft. with brick. There is no guarantee and brick is to be laid in 6-in. gravel foundation. The contract was awarded to C. H. DEFREES, South Bend, Ind., at the following bid: 1,142 cu. yds. earth excavation, 22 cts.; 2,717 sq. yds. paving, $1.13; total, $3.376.

BIDS RECEIVED AT GRAND RAPIDS, MICH., OCTOBER 4, 1905, BY COL. M. B. ADAMS, U. S. ENGINEERS, FOR EXTENSION OF PIERS, IMPROVING HARBOR AT HOLLAND, BLACK LAKE, MICH.

Items.	Quantities.	(1)	(2)	(3)	(4)	(5)
Dredging for crib foundations	3,200 cu. yds.	$0.25	$0.50	$0.75	$0.30	$0.60
Foundation piles	17,888 lin ft.	.50	.55	.55	.30	.60
Oak guard piles	1,104 "	.40	.35	.31	.45	.40
Piles for pile structures	20,649 "	.50	.30	.31	.30	.34
Oak timber	18,340 ft., B.M.	50.00	52.00	45.00	50.00	50.00
White, Norway or Southern pine, or Oregon fir timber	778,704 "	32.50	33.00	33.00	37.50	36.00
Hemlock timber	1,864,600 "	28.50	23.15	22.75	30.00	25.00
White, Norway or Southern pine, or Oregon fir planks	90,630 "	31.00	30.00	29.75	32.00	36.00
Drift bolts	309,863 lbs.	.03	.03	.0325	.035	.04
Screw bolts	47,346 "	.03	.0325	.0325	.035	.04
Tie rods	7,076 "	.03	.0325	.0325	.035	.04
Spikes	6,169 "	.03	.0325	.0325	.035	.04
Stone	6,590 cords	6.00	6.70	7.20	6.80	7.00
Totals		$144,016	$145,978	$150,108	$159,752	$159,891

TRADE PUBLICATIONS.

GAS PRODUCERS.—Backus Water Motor Co., Newark, N. J. Paper; 6¼ × 9¼ ins.; pp. 4.

ENGINE LATHES.—Gisholt Machine Co., Madison, Wis.

A recent leaf for the Gisholt Company's sectional catalogue shows the new foundry which the company has built.

LOCOMOTIVES. — Baldwin Locomotive Works, Philadelphia, Pa. Paper; 9 x 6 ins.; pp. 42; illustrated.

This handsome pamphlet is devoted to the balanced compound locomotive. It describes its special features and advantages, gives the results of performance in service, and illustrates a number of engines of this type.

GALVANIZED IRON.—The United Galvanizing Co., 520 Beach St., Philadelphia. 3½ × 6-in. folder.

A list of sizes of galvanized bar, band and sheet iron, the latter including angles up to 3-inch, channels up to 1½-inch, half ovals, etc. The list also includes galvanized nails, boat spikes, chains and anchors, and the like.

GAS AND GASOLINE ENGINES.—Backus Water Motor Co., Newark, N. J. Paper; 9½ × 6 ins.; pp. 32; illustrated.

Special simplicity is claimed for the Backus gas and gasoline engines, which are shown in the larger of the above noted pamphlets. These engines are built in sizes from 1 to 75 HP. The Backus gas producer is of the suction type.

PUMPING ENGINES.—Allis-Chalmers Co., Milwaukee, Wis. Paper; 8 × 10½ ins.; pp. 11 and 7; illustrated.

These pamphlets give test results on a 15,000,000-gallon water-works pumping engine at St. Louis, and a 30,000,000-gallon pumping engine at Boston, Mass., each showing a duty of nearly 180,000,000 foot-pounds per thousand pounds dry steam.

BELT COAL-HANDLING MACHINERY.—Robins Conveying Belt Co., Park Row Building, New York. Paper; 6 × ins.; pp. 15; illustrated.

A general description of the conveying belt system and of its application, with its auxiliary devices, to coal handling in power plants, is here presented. Mention is made of an ash conveyor in one of the large New York power plants, which has been in constant use for six years, and is said to be still in excellent condition.

HOISTING MACHINERY.—Allis-Chalmers Co., Milwaukee, Wis. Paper; 8 × 10½ ins.; pp. 78; illustrated.

Mine hoisting engines are illustrated by a variety of photographs, accompanied by suitable text description, in this catalogue. Quite a number of mine hoist accessories are shown in connection with the engines, such as cages, buckets, depth indicators, mine cars and the like. Much information in the way of data and observations is scattered through the catalogue.

PIPE FITTINGS.—Crane Co., Chicago. Paper; 6½ × 10 ins.; two pamphlets, 8 pages; illustrated.

Two special forms of joint for wrought iron pipe are shown and listed in these pamphlets. One is a flanged joint with wrought steel flanges welded to the pipe; the other style of joint has separate flanges to which the pipe connects by something similar to the beaded junction between a boiler tube and the tube sheet. The flanges in this case are made from either cast or malleable iron, or cast or wrought steel.

LOCOMOTIVES AND ROLLED STEEL WHEELS.—Baldwin Locomotive Works, Philadelphia, Pa. Two pamphlets; 9 x 6 ins.; pp. 32 and 27; illustrated.

These are Nos. 51 and 52 of the firm's periodical issue. The first is one of the series of records of recent locomotives, giving illustrations and dimensions of 15 engines, ranging from ten-wheel passenger and consolidation freight engines to a four-wheel saddle-tank industrial engine. A ten-wheel engine for the new Seoul & Fusan Ry., built in Korea by the Japanese military department, is included. The second pamphlet describes and illustrates the manufacture of car wheels rolled from billets by specially designed machinery.

ARTESIAN WELLS.—Thomas B. Harper, Jenkintown, Pa. Paper; 6½ × 3½ ins.; pp. 4; illustrated.

A list of wells drilled, with depths, diameters and yields is given.

TANK AND VACUUM PUMPS.—American Steam Pump Co., Battle Creek, Mich. Paper; 7 × 8 ins.; pp. 24; illustrated.

Tables of sizes and other details are given for a variety of pumps, preceded by general descriptive matter.

TAPE SPLICE.—F. Weber & Co., 1125 Chestnut St., Philadelphia Leaflet.—Describes a "ready-to-use" tape splice, which can be applied and adjusted in a jiffy with no other tool than a pocket screw driver or the back of a knife blade.

WIRE FENCING.—Chicago Wire Fence & Tool Co., 146 E. Division St., Chicago, Ill. Paper; 6½ × 3½ ins.; pp. 32; illustrated.

This is a descriptive pamphlet of the Mossman stay wire fence, and stays for old wire fencing; also tools for erecting the fences and applying the stays.

TIE PLATES.—Railroad Supply Co., Bedford Building, Chicago. Paper; 6 × 9 ins.; pp. 16; illustrated.

This pamphlet describes the Wolhaupter, the Q. & W., the C. A. C., and other steel tie-plates, with particulars of their dimensions, advantages, etc.

WATER WHEEL GOVERNORS.—Replogle Governor Works, Akron, O. Paper; 6 × 9 ins.; pp. 20; illustrated.

The Replogle new mechanical governor is shown in its various sizes. The capacities, weights, etc., are noted, and a set of dimension diagrams is given.

TRENCH EXCAVATORS.—Municipal Engineering & Construction Co., Railway Exchange, Chicago. Paper; 10½ × 14 ins.; pp. 2; illustrated.

This circular briefly sets forth the advantages of the company's Chicago trench excavator for sewer and other work.

DRAWING INKS.—The Frederick Post Co., New York City. Paper; 3 × 9 ins.; pp. 8; illustrated.

This pamphlet sets forth the merits of the special drawing inks manufactured by the firm named. There are a number of testimonials from noted artists in favor of these inks for illustration purposes.

GASOLINE ENGINES.—Fairbanks, Morse & Co., Chicago. Paper; 6 × 9 ins.; pp. 32; illustrated.

This is a catalogue of vertical engines using gas, gasoline, kerosene and distillate, and relates mainly to small engines of 2 to 6 HP. for driving pumps, feed grinders, circular saws. Numerous testimonials are given.

STEAM PUMPS.—A. S. Cameron Steam Pump Works, New York City. Bookmarks.

A neat and effective piece of advertising is represented by some book-marks recently issued by this company. A pump air chamber, ornamented with a picture in colors, forms the projecting "mark" of the device.

FIRE PLUG COUPLING.—The Victor Supply Co., Springfield, O. Paper; 3 × 6 ins.; pp. 4; illustrated.

This coupling is secured to the hose carried by the hose wagon and is provided with branches for fire engine connections. The latter can be made without disturbing the fire stream given by the ordinary hydrant pressure.

MECHANICAL FILTRATION AND WATER SOFTENING.—Pittsburg Mfg. Co., Pittsburgh, Pa. Three pamphlets; 6¼ × 9 ins.; pp. 46, 54 and 32; illustrated.

The advantages, principles and practice of mechanical filtration and of water softening are set forth at length in these well made pamphlets. A number of filter and softening plants are shown.

HOLLOW STAY-BOLTS.—Falls Hollow Staybolt Co., Cuyahoga Falls, O. Paper; 3½ × 6 ins.; pp. 32.

A collection of testimonials and comments, and a list of sizes of hollow stay-bolt iron and steel, are contained in this pamphlet, which is accompanied by several separate sheets, making strong and specific argument for the use of hollow stay-bolts.

ROLLER BEARINGS.—Hyatt Roller Bearing Co., Paterson, N. J. Paper; 6½ × 8½ ins.; pp. 16.

An interesting bit of advertising, presented in an attractive form, consists of the collections of letters here reproduced, which summarize the history of a large order for Hyatt flexible roller bearings for the new factory of the United Shoe Machinery Co. at Beverly, Mass.

GAS PRODUCERS.—The Morgan Construction Co., Worcester, Mass. New York office, 40 Exchange Place. Paper; 6 × 9 ins.; pp. 50; illustrated.

So much interest has recently been awakened in the possible economies of producer gas that many will be interested in this catalogue of the Morgan continuous gas producer and automatic feed. Much instructive information is given regarding the process itself and the possibilities of this modern method of securing the greatest heat value of fuel. The degree of perfection attained by these producers is shown by a test by Robt. W. Hunt & Co. upon an installation of the producers in the plant of the Grand Crossing Tack Co., Chicago.

SMELTING FURNACES AND ACCESSORIES.—Allis-Chalmers Co., Milwaukee, Wis. Paper; 8 × 10½ ins.; pp. 54; illustrated.

The range of material covered by this catalogue is quite large, including furnaces of various kinds for lead, copper and other metals and ores; settling pots, ladles and ladle cars, blowers, blast furnaces and the like.

STORAGE BATTERIES.—General Storage Battery Co., 42 Broadway, New York. Paper; 6 × 9 ins.; pp. 36; illustrated.

The Bijur storage battery plate, described some time ago in Engineering News, is a Planté plate, of special construction to give high durability and high discharge rate capacity. The present is a complete catalogue of these batteries and includes prices and code words.

MAGNETIC COUPLINGS.—Cutler-Hammer Clutch Co., Milwaukee, Wis. Paper; 6 × 9 ins.; pp. 16; illustrated.

A carefully developed line of magnetic clutches and couplings is described in this catalogue. The clutches are designed with the idea of giving gradual starting, in place of the sudden jar of a jaw clutch or of many friction couplings. A list of sizes, capacities and weights is included.

ELECTRIC TESTING.—The Electrical Testing Laboratories, 80th St. and East End Ave., New York, N. Y. Paper; 6 × 9 ins.; pp. 36; illustrated.

This pamphlet contains a reprint of an article by C. H. Sharp describing in considerable detail the equipment of the Electrical Testing Laboratories, a company whose work is to do electrical and photometric measurements and tests for the general public.

PRESSURE INCANDESCENT GASOLINE LAMPS.—Blair Light Co., Northboro, Mass. Paper; 6 × 9 ins.; pp. 29; illustrated.

In this lamp the heat of combustion, the makers state, is utilized to generate gas from gasoline in a coil. The gas is passed across an open space, thus taking up oxygen. Mantles are used on the burners. Numerous illustrations show the design of the lamp and various styles of the lamp and fixtures.

CONCRETE CHIMNEYS.—Weber Steel-Concrete Chimney Co., 159 La Salle St., Chicago. Paper; 4¼ × 9 ins.; pp. 31; illustrated.

The Weber system of chimney construction is briefly described, but the pamphlet consists mainly of excellent half-tone engravings of some 20 chimneys built by the company. The diameter and height of each are given, the largest being a smelter chimney at Tacoma, 300 ft. high and 18 ft. diameter.

LIFTING MAGNETS.—The Electric Controller & Supply Co., Cleveland, O. Paper; 6 × 9 ins.; pp. 24.

In so far as the manufacture of lifting magnets can be brought into catalogued form, this is a catalogue of such devices. A number of high-class photographic reproductions show a variety of services in which lifting magnets are used, ranging all the way from loading and handling scrap and pig iron to shifting plate and bar material in a warehouse.

TRACTION ENGINES.—Buffalo Pitts Co., Buffalo, N. Y. Paper; two pamphlets, 9 × 7 ins.; pp. 52; and 10 × 8 ins.; pp. 16; cloth; illustrated.

These engines are for farm and general traction work, with single and double (non-compound) cylinders. The straw-burning boilers have a fire flue and return tubes. Portable engines, tanks and threshing machinery are included. The second pamphlet relates mainly to the use of the larger traction engines for plowing.

TANGENTIAL WATER WHEELS.—Pelton Water Wheel Co., San Francisco, Cal. Paper; 6 × 9 ins.; pp. 108; illustrated.

This catalogue is quite full of information which may prove interesting to those who have to do with tangential water-wheel-plants. The Pelton wheel and accessories and complete installations are very fully represented in text and illustrations, and scattered through the pages are many remarks, figures and tables that may be of service in one way or another. Even the miner's inch has a page devoted to it.

WATER POWER EQUIPMENT.—Wellman-Seaver-Morgan Co., Cleveland, O. Paper; 6 × 9 ins.; pp. 24; illustrated.

Illustrations of parts of and complete turbines for relatively low heads are shown and described. The Jolly-McCormick turbine is the one represented. An extensive table of speed, water consumption and power at various heads from 4 to 100 ft. is given; the largest turbine in this table is of 2,240 HP., working under 45 ft. head. A report of tests at Holyoke on a 33-in. double turbine as built for the Michigan Lake Superior Power Co. (Ste. Marie) is also reproduced.

SHAVING MACHINES, PLATE ROUTERS, CASTING BOXES, ETC.—Murray Machinery Co., Kansas City, Mo. Two 4-page folders; 6 × 9 ins.

These folders give illustrations of the machines and brief descriptions of the same.

REPAIR PARTS OF RAILWAY MOTOR.—General Electric Co., Schenectady, N. Y. 5¼ × 7¾ ins.; pp. 4.

This catalogue gives illustrations of the repair parts of the GE-74-A railway motor made by the General Electric Co., together with the list prices of the same.

STEEL BARS FOR REINFORCED CONCRETE.—The Rogers-Shear Co., Warren, Pa. 7 × 5¼ ins.; pp. 14.

This catalogue illustrates a new type of bar for reinforced concrete. One of its best merits is that the bar can be spliced with a very simple locking device requiring no rivets.

CRANE HOISTS.—Niles-Bement-Pond Co., Trinity Building New York. Paper; 12 × 9 ins.; pp. 24; illustrated.

This catalogue is specialty devoted to so-called electric trolleys or traveling hoists, that is, self-contained electric crabs which may have only electric hoist, or both hoist and traverse electrically driven, and are arranged to run on the lower flange of an I-beam or on the lower flanges of two beams or channels set some distance apart. Hoists up to 6 tons capacity are shown. Some excellent photographs of single machines and installations are contained in the catalogue.

FACTORY APARTMENTS.—Bush Terminal Co., 117 Pearl St., Manhattan, New York City. Paper; 12 × 9 ins.; pp. 11; illustrated.

The Bush Company has under execution an interesting plan for establishing a factory colony in South Brooklyn. A series of large reinforced concrete buildings, five or six stories high, is now being built for the purpose of housing various manufacturers as tenants, power, shipping facilities, etc., being supplied by the owners. The present publication describes this scheme in a general way, illustrates the buildings, and shows the Bush Terminal plant in connection therewith.

GAS ENGINES.—De La Vergne Machine Co., New York. Paper; 10½ × 8 ins.; pp. 53; illustrated.

The manufacture of large size gas engines, which is being taken up with such interest in America, is represented in this catalogue by the Koerting engine as made by the De La Vergne Machine Company. A number of photographs and drawings illustrate the machines of this manufacture, while the special features of the machine and its operation are discussed in the text. A special point is made of the economy of the engine, as exhibited in a diagram of relative heat consumptions per unit of various types of engine.

DRY BLAST EQUIPMENT.—De La Vergne Machine Co., New York. Paper; 4 × 9 ins.; pp. 8; illustrated.

The device of drying the blast supplied to blast furnaces by freezing out the moisture, as introduced by Mr. James Gayley, is represented by a refrigerating process and equipment on which the De La Vergne Machine Co. has patents pending. A special feature of their process is that the refrigeration is conducted in two stages: the first one cooling the air to nearly the freezing point, after which much of the moisture is separated out by screens; and the second refrigeration drying the air thoroughly by freezing. The refrigeration is by ammonia compression, two separate compressors being provided to serve the two stages.

POWER TRANSMISSION APPLIANCES.—Dodge Manufacturing Co., Mishawaka, Ind. Cloth; 6 × 9 ins.; pp. 407; illustrated.

The volume before us is a comprehensive and detailed catalogue of everything required in mechanical power transmission, from pulleys and rope dressing to belt conveyor trippers. The more extensive items—such as pulleys, sprocket chain, gears, etc.—have special tables of sizes, prices and code words, for the convenience of the purchaser. Practically every item is illustrated and full information given of the sizes available, the code word, and usually the price. The American system of rope transmission, which has long been a specialty of this concern, is quite fully discussed. An unusually complete index is appended to the catalogue. The book is substantially bound and, as the company remarks, is intended for desk purposes. A complete reproduction in 4 × 6 pocket size will, we are informed, be issued shortly.

TOOL POST HOLDER.—Gisholt Machine Co., Madison, Wis. Loose Leaf; 7¼ × 9½ ins.

ORANGE-PEEL BUCKETS.—Theodore Smith & Sons Co., Jersey City, N. J. 4-page folder, 3½ × 6 ins.

WELDED FLANGES FOR PIPE.—The Ball & Wood Co., 17 Battery Place, New York. 10 × 7 ins.; pp. 19.

CONCENTRIC DIFFUSERS AND ADAPTERS.—General Electric Co., Schenectady, N. Y. 5¼ × 7¾ ins.; pp. 4.

SHEAR BLADE AND KNIFE GRINDER.—Diamond Machine Co., Providence, R. I. Four-page folder; 9 × 6¼ ins.

ROLLING ROAD.—Hyatt Roller Bearing Co., Harrison, N. J. 6½ × 9¼ ins.; pp. 8.

This interesting pamphlet describes the first rolling road used for transporting wagons on a street up a steep hill, in Cleveland, Ohio.

CORRUGATED CONCRETE PILES.—Corrugated Concrete Pile Co., 34 West 26th St., New York. 3 × 11 ins.; pp. 12.

A novel form of corrugated reinforced concrete pile is illustrated and described in this pamphlet, and its merits are set forth.

FROGS, SWITCHES, CROSSINGS, ETC.—The Weir Frog Co., Cincinnati, O. 8½ × 5 ins.; pp. 50.

Line drawings illustrate the frogs, switches and crossings made by this company, and the text briefly describes the same.

CARD INDEX SYSTEMS, DESKS AND OFFICE FURNITURE.—Koller & Smith, 141 Broadway, New York. 10-page folder, 3¾ × 7¾ ins.

Letter files, cabinets, card indexes, desks and chairs are listed in this folder, and prices given.

HORSE ROLLERS.—Julian Scholl & Co., 126 Liberty St., New York. 4-page folder, 6 × 9 ins.

This folder gives illustrations of the different types of horse rollers made by this company, together with tables of sizes and weights.

STEEL CARS.—Goodwin Car Co., 96 Fifth Ave., New York. 9½ × 6 ins.; pp. 64.

Line drawings show in detail the design of the Goodwin dump car and the methods of operating it. Photographs illustrate the car in use on numerous contract jobs, and letters from various contractors who have used the car successfully are given.

MEASURING TAPES, RULES, ETC.—Lufkin Rule Co., Saginaw, Mich. Paper; 4 × 5¾ ins.; pp. 64; illustrated.

Steel and linen tapes of various kinds occupy 37 pages, and the remainder of the pamphlet is devoted to plain and folding rules, timber and log measuring rules, log calipers, and glass-cutting rules. Prices and dimensions are given.

RHEOSTATS, CIRCUIT BREAKERS AND ARC RECTIFIERS.—General Electric Co., Schenectady, N. Y. Three bulletins; 8 × 10½ ins.; pp. 8, 9 and 7, respectively.

Line cuts illustrate the design and dimensions of rheostats and circuit breakers, and tables give dimensions and other necessary data. The Mercury arc rectifier is fully described, and diagrams are given showing the actual voltage obtainable.

SEWAGE DISPOSAL.—F. Wallis Stoddart, Western Counties Laboratories, Bristol, England. Paper; 9½ × 6 ins.; pp. 32; illustrated. Second edition. 6 pence, or in boards, 1 shilling. (In America, 20 or 40 cts., respectively.)

Mr. Stoddart has developed along interesting lines a type of percolating or sprinkling filters, the main and only patented feature of which is the distributing apparatus. This apparatus consists of specially corrugated sheet iron, set just above the surface of the filter bed. The corrugated iron is perforated, and in each perforation a nail is placed, thus making a large number of drip points and distributing the sewage in a shower-like manner. The distributors fit at right angles into iron supply channels, mounted on chairs provided with set screws for bringing the channels to a level. The chairs are fitted to inverted T-irons, the ends of which rest on piers. The beds are composed of coarse material, say 3 ins. in diameter, with 6-in. stuff at the bottom to facilitate drainage. The concrete floor of the filter bed pitches slightly from the center outwards and extends far enough beyond the bed to give space for a channel in which the effluent is collected. Preliminary treatment for the sewage originally consisted of septic tanks, but Mr. Stoddart now prefers sedimentation tanks and has worked out a system of scum boards and baffle walls designed to retain as much as possible of the sludge in a compartment near the inlet and to reduce to a minimum the suspended matter, large and small, passing through the tank. The Stoddart distributing system is in use on percolating filters at a number of British sewage works and a complete installation of tank and bed is in use at the sewage works of the Horfield Urban District Council, near Bristol.

CORRUGATED JOINTING RINGS.—Friedrich Goetze, New York. 4-page folder, $5\frac{1}{2} \times 8\frac{1}{2}$ ins.

AUTOMATIC GRAB BUCKETS. — The Browning Engineering Co., Cleveland, O. 4-page folder, $6 \times 9\frac{1}{4}$ ins.

COAL MINING MACHINERY.—Ingersoll-Sergeant Drill Co., 11 Broadway, New York City. $3\frac{1}{2} \times 3$ ins.; pp. 12.

Some of the latest appliances for coal mine use are briefly described.

MAILING SYSTEM.—The Cutler Mfg. Co., Rochester, N. Y. Stiff paper; 6×9 ins.; pp. 30.

The Cutler mailing chutes in various sizes and types are fully illustrated and described.

"IDEAL POWER."—Vol. 2, No. 2, May, 1905. Published by Chicago Pneumatic Tool Co., Chicago, Ill. 6×9 ins.; pp. 40

This is a monthly magazine illustrating and describing the uses of compressed air for various purposes.

BUTT JOINTS.—Hodge Boiler Works, Mason Building, Boston, Mass. $6\frac{1}{4} \times 9\frac{1}{2}$ ins. pp. 6.

In this pamphlet the dangers of boiler explosions due to lap joints are set forth, as compared with the safety butt joints.

DRILLING MACHINES.—National Drill & Mfg. Co., New York and Chicago. 4-page folder, $6 \times 3\frac{1}{2}$ ins.

This folder outlines the uses of the National well-driller for drilling wells, for drilling blast holes, prospecting, etc.

PACKINGS.—Crandall Packing Co., Palmyra, N. Y. $5\frac{1}{4} \times 7\frac{3}{4}$ ins.; pp. 70.

Ring packing, spiral packing and sheet packing in various kinds are illustrated and described in this pamphlet, prices being given in all cases for each kind of packing.

PNEUMATIC HAMMERS.—The Ingersoll-Sergeant Drill Co., 26 Cortlandt St., New York. 6×9 ins.; pp. 19.

The Haeseler axial riveting hammer is fully described and illustrated in this catalogue. Tables are given showing dimensions, free air consumed, etc.

"SOME SEA SPECIALTIES."—Horace See, 1 Broadway, New York. Cloth; $9\frac{1}{4} \times 6\frac{1}{4}$ ins.; pp. 48.

This catalogue contains advertisements of more than a dozen manufacturers of supplies, machines and devices to be used on ships.

TOBIN BRONZE.—The Ansonia Brass & Copper Co., 99 John St., New York. $4 \times 7\frac{1}{4}$ ins.; pp. 31.

This catalogue gives tests of Tobin bronze and describes the many uses to which it may be put, especially on boats and ships. Numerous testimonial letters are given.

SEWER AND WATER PIPE, FIRE AND PAVING BRICK, DRAIN TILE, ETC.—Arthur N. Pierson & Co., 1 Park Row, New York. Stiff paper; $6 \times 8\frac{1}{2}$ ins.; pp. 62.

List prices and weights of the various sizes of vitrified sewer pipe are given, also fire clay stove-piping, chimney tops, vitrified curbing, porous tiles, etc.

ROLLER CHAINS.—The Link Belt Engineering Co., Philadelphia, Pa. 6×9 ins.; pp. 12.

The construction of the Renold roller chain is illustrated by drawings and described in the text. Price lists are given of the different sizes of chains made, accompanied by instructions as to the use of the chains.

COMPRESSED AIR PUMPS.—The W. G. Leale Co., San Francisco, Cal. Stiff paper; $5\frac{3}{4} \times 8$ ins.; pp. 36.

This catalogue consists largely of reprints from various engineering journals describing the ingenious air lift pump manufactured by this company. Letters from different engineers and users of the pump are given.

BLOWING ENGINES.—Southwark Foundry & Machine Co., Philadelphia, Pa. Boards; 9×6 ins.; pp. 47.

Photographs and line cuts illustrate the general features of the blowing engine made by this company. The text sets forth the principal merits of the machines. A long list of users of Southwark blowing machines is given.

DUMPING CARS.—The Lawson Car Co., 1 West 34th St., New York. Stiff paper; $7 \times 8\frac{1}{2}$ ins.; pp. 13.

The Lawson dump car is a car consisting essentially of two steel boxes mounted on trucks. One box dumps from one side of the car, and the other dumps from the other side. Photographs and line drawings illustrate the car.

INTERURBAN RAILWAY CONSTRUCTION.—J. G. White & Co., 43 Exchange Place, New York. Stiff paper; $10\frac{1}{2} \times 8$ ins.; pp. 15.

This catalogue illustrates some of the electric railway construction that has been done by J. G. White & Co. The reading matter in the bulletin describes the organization and scope of the company.

ARTISTS' MATERIALS AND DRAFTSMEN'S SUPPLIES.—F. Weber & Co., 1125 Chestnut St., Philadelphia. Stiff Paper; 6×9 ins.; pp. 437; illustrated.

As might be inferred from its size there is listed in this catalogue a great range and variety of materials and instruments for architects and other artists, engineers, lithographers, gilders, and others.

STEAM SEPARATORS, FEED WATER HEATERS, BELT PUMPS, ETC.—Frank L. Patterson & Co., 26 Cortlandt St., New York. Two 4-page folders, $3\frac{1}{4} \times 6\frac{1}{4}$ ins.; one 6-page folder, $3\frac{1}{4} \times 6\frac{1}{4}$ ins., and two cards, $3\frac{1}{4} \times 6\frac{1}{4}$ ins.

Pumps driven by belts from shafting are illustrated, and tables given of their dimensions, capacities and prices. Folders illustrate and briefly describe feed water heaters, oil separators, and so on.

HOISTING AND OTHER ENGINES, STEAM AND ELECTRIC CRANES, STEERING GEAR, ETC.—Williamson Bros. Co., Philadelphia, Pa. Stiff paper; 6×9 ins.; pp. 113.

Hoisting engines of different sizes and types are illustrated and described, and tables are given of dimensions, capacities, etc. Locomotive steam cranes are also shown, and electric winches and hoists. Steam and hand gearing devices, for use in shops, receive considerable space in this catalogue.

EXHAUST AND VENTILATING FANS.—American Blower Co., Detroit, Mich. $7 \times 8\frac{3}{4}$ ins.; pp. 66. Also, $6 \times 6\frac{3}{4}$-in. pamphlet; pp. 8.

This catalogue is devoted to the "ABC" exhaust fans for removing and conveying shavings, dust, cotton and wool, smoke and fumes, and for use in heating and drying plants. Different sizes and types of steel plate and cast-iron fans are shown, tables of dimensions, capacities and prices being given, also data for determining the size of fan necessary.

Disc ventilating fans driven by electric motors are described in a separate pamphlet.

CONCRETE PILES.—Raymond Concrete Pile Co., Merchants' Loan & Trust Building, Chicago. Paper; 6×9 ins.; pp. 48; illustrated.

In the Raymond system a collapsible steel pile is driven to form a hole in the ground and is then withdrawn, leaving a sheet iron mold or lining, and the hole is then filled with concrete. This system, with modifications, is described and a number of illustrations show work in progress and structures built upon the concrete pile foundations. These include a railway trestle. A reprint of an article on the use of concrete piles at the U. S. Naval Academy at Annapolis, Md., is also given.

PITOMETER WATER WASTE INSPECTIONS.—The Pitometer Co., 220 Broadway, New York, and 310 Ashland Block, Chicago. Paper; 6×9 ins.; pp. 8; illustrated.

The latest improvements in the pitometer and in its use for engine tests and water main inspections are here described with brevity and clearness. Where more stability is desirable than is given by the slender tubes of the original pitometer these tubes are enclosed in a metallic bar of oval cross section, thus changing the "standard meter" to the "rod meter." A manual recorder is now provided for use where the briefness of the observation does not demand the long-time continuous record given by the photo recorder. The manual recorder, however, gives a real record, obviating the necessity of a note-book. A pitometer street connection is also described in the catalogue under consideration.

For other Proposal Advertisements see pages 43, 44, 45, 46, 47, 48, of Advertisements and Construction News page 126.

SEWERS.

Chattanooga, Tenn.

Sealed proposals, directed to the undersigned and marked "Bid for Sewer Work," will be received at the office of the Board of Public Works, Chattanooga, Tenn., until 2.30 P. M. on Nov. 7th, 1905, when the same shall be opened and publicly read, for the construction of certain brick and pipe sewers and appurtenances, of which the following are approximate quantities:

50″ × 75″	egg-shaped	brick	sewer	1,812	lin. ft.
48″ × 72″	"	"	"	785	" "
46″ × 69″	"	"	"	676	" "
20″ × 30″	"	"	"	312	" "
30″	circular	"	"	990	" "
24″	vitrified pipe		"	240	" "
20″	"	"	"	3,328	" "
18″	"	"	"	1,374	" "
15″	"	"	"	2,012	" "
12″	"	"	"	6,958	" "
10″	"	"	"	4,115	" "

Also 68 manholes, including several special and drop manholes in which cast-iron pipe is used.

The depth of the egg-shaped brick sewer will vary from 16 to 65 feet below surface. Whole work to be completed within one year from date of contract.

Specifications, information for bidders, blank forms for proposals, contract and bond, may be had on application to Robt. Hooke, City Engineer, who will furnish blue-print plans and profiles on receipt of $20.00, which amount will be refunded on the return of the prints in good condition before or within ten days after the bidding.

Each proposal must be accompanied by a certified check, payable to T. J. Gillispie, City Treasurer, for $5,000 as a guarantee that the bidder will, if awarded the contract, execute the same with the required bond within ten (10) days from the date of award. The bond required will be one-half the amount of the contract and shall be with a surety company of approved standing.

The right is reserved to reject any or all bids.

A. L. THOMAS,

15-2t Chairman, Board of Public Works.

SEWERS.

Plainfield, N. J.

Sealed proposals will be received on Monday, the sixth day of November, 1905, at 8 o'clock p. m., at the Council Chamber, No. 149 North Avenue, in the City of Plainfield, N. J., for doing the work and furnishing the materials for the construction of approximately:

568 feet concrete sewer, 36-in. × 48-in.
2 Manholes.
8 Branches on concrete sewer.
12 Inlets.
260 feet 12-in. basin connections.
60 feet 15-in. basin connections.

Each proposal must be accompanied by a certified check for $200, payable to the Treasurer of the City of Plainfield.

Plans may be examined and forms of proposals, specifications, contract, bond, etc., may be obtained at the office of the Engineer, 151 North Avenue, Plainfield, N. J.

The right to reject any or all bids and to diminish the amount of work is expressly reserved by the Common Council; the appropriation is $2,000.

All proposals must be endorsed "Proposals for Sewers."

J. T. MacMURRAY,
City Clerk.

ANDREW J. GAVETT,
City Surveyor.

Dated October 9, 1905. 15-1t

DEPARTMENT OF THE INTERIOR, Washington, D. C., October 6, 1905.—Sealed proposals will be received at the office of the Engineer, United States Reclamation Service, Chamber of Commerce Building, Denver, Colo., until 3 o'clock p. m., November 8, 1905, for the construction of concrete culverts, siphons, drops, flumes, wasteways, bridge abutments, etc., and furnishing 10 combination highway bridges, and 5,000 pounds steel. Total amount of concrete about 10,000 cubic yards. Above work to be done along the line of the Interstate Canal from Whalen to Torrington, Wyo., in connection with the North Platte project, Nebraska. Specifications, form of proposal and plans may be obtained at the office of the Chief Engineer of the Reclamation Service, Washington, D. C., or from John E. Field, Engineer, Reclamation Service, Denver, Colo., or Wyncote, Wyo. E. A. HITCHCOCK, Secretary. 15-4t

Mail Copy for Proposal Advertisements

and "TELEGRAPH US THE REST" *AT OUR EXPENSE*

OFTEN COPY AND ORDERS for proposal advertisements, to be inserted in ENGINEERING NEWS, arrive too late for insertion in the current week's issue, the last pages of which go to press WEDNESDAY NOON. To avoid the danger of advertisements being received too late, and having to wait a week for insertion, we suggest that the official in charge of sending instructions, mail us copy for the advertisement in advance of the board meeting, if possible. We shall hold this copy for further instructions, which may be telegraphed us at our expense, immediately after the meeting. The copy of the advertisement sent us should be left blank as to the hour and date when bids are to be opened, the amount of the security and check, and other items that cannot be determined in advance.

THE LAST PROPOSAL PAGES go to press Wednesday morning, so that copy for advertisements, or telegrams, received Wednesday noon will have immediate attention. Letters mailed from points east of the Mississippi River on Monday, will be received at this office on Wednesday. Mail from points beyond should be posted Thursday, Friday, or Saturday, according to the distance. If in doubt that copy will reach us in time, send us a draft of the advertisement and "TELEGRAPH US THE REST." Special delivery stamps can also be used to good advantage. Follow your telegram with definite instructions by letter.

ADVERTISE FOR BIDS IN ENGINEERING NEWS AS FAR IN ADVANCE as possible, and continue the advertisement until the day of opening bids. A number of municipalities do this with satisfactory results. Plans and specifications may be filed at our offices in New York and Chicago (Monadnock Block) for the benefit of intending bidders, and an addition will be made to your advertisement, stating this fact, FREE OF CHARGE to you.

COPY FOR OTHER ADVERTISEMENTS, often used by city, county and state officials, such as "Situations Open" (3 cents a word) and "For Sale" ($1.50 an inch) advertisements should reach us on Tuesday to insure insertion in the current week's issue. These small cards will always bring good results.

Address Letters and Telegrams to

ENGINEERING NEWS

220 Broadway, New York

Just Ready

FIFTH EDITION

Osborn's Tables of Moments of Inertia

182 Pages, Flexible Leather

Revised by

THE OSBORN ENGINEERING CO.

Price, $3.00

FOR SALE BY

ENGINEERING NEWS

220 Broadway, New York

SITUATIONS OPEN

WANTED—Competent and experienced draftsman for structural steel work, chiefly of the mill building type and bridges for heavy electric railroads. Address INDIANA BRIDGE COMPANY, Muncie, Ind., giving experience, references and least salary considered. 15-1t

WANTED.—Immediately, one good instrumentman, $75.00; one rodman, $60.00, on railway survey and construction in Indiana. C. V. OGBIN, 96½ Charlotte St., Rochester, N. Y. 15-1t